



west virginia department of environmental protection

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

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

Monday, May 22, 2023  
WELL WORK PERMIT  
Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC  
POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit approval for Nick Ballato BRK 8H  
47-009-00334-00-00

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.

James A. Martin  
Chief

Operator's Well Number: Nick Ballato BRK 8H  
Farm Name: Nicholas & Christopher Ballato  
U.S. WELL NUMBER: 47-009-00334-00-00  
Horizontal 6A New Drill  
Date Issued: 5/22/2023

Promoting a healthy environment.

05/26/2023

# 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. Failure to adhere to the specified permit conditions may result in enforcement action.

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## CONDITIONS

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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.

05/26/2023

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 009- Brooke 02-Cross 620-Steubenville  
Operator ID County District Quadrangle

2) Operator's Well Number: Nick Ballato BRK 8H Well Pad Name: Nick Ballato BRK

3) Farm Name/Surface Owner: Nicholas & Christopher Ballato Public Road Access: St. Johns Run Road

4) Elevation, current ground: 959' Elevation, proposed post-construction: 959'

5) Well Type (a) Gas  Oil  Underground Storage

Other

(b) If Gas Shallow  Deep

Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Target Formation- Marcellus, Down-Dip well to the South, Target Top TVD- 5661', Target Base TVD- 5727', Anticipated Thickness- 66', Associated Pressure- 3722

8) Proposed Total Vertical Depth: 5715'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 23916'

11) Proposed Horizontal Leg Length: 17899.47'

12) Approximate Fresh Water Strata Depths: 300'

13) Method to Determine Fresh Water Depths: Nearby Water Well 4700900100

14) Approximate Saltwater Depths: 790' Salinity Profile

15) Approximate Coal Seam Depths: NA

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

(a) If Yes, provide Mine Info: Name: \_\_\_\_\_  
Depth: \_\_\_\_\_  
Seam: \_\_\_\_\_  
Owner: \_\_\_\_\_

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Office of Oil and Gas  
MAY 05 2023  
WV Department of  
Environmental Protection

WW-6B  
(04/15)

API NO. 474099 **4700900334**  
 OPERATOR WELL NO. Nick Ballato BRK 8H  
 Well Pad Name: Nick Ballato BRK

18)

**CASING AND TUBING PROGRAM**

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	110'	110' ✓	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	350'	350' ✓	404 sx/CTS
Coal							
Intermediate	9 5/8"	New	J-55	36#	1371'	1371' ✓	552 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	23916'	23916' ✓	Tail 4381sx/ 100' Inside Intermediate
Tubing							
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (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							
Intermediate	9 5/8"	12 1/4"	0.352	3520	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							

**PACKERS**

Kind:				RECEIVED Office of Oil and Gas
Sizes:				MAY 05 2023
Depths Set:				WV Department of Environmental Protection

*Strader Gower*  
05/04/2023

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 unites, 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, including roads, stockpile area, pits, etc., (acres): 10.91

22) Area to be disturbed for well pad only, less access road (acres): 8.0

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.

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

See Attachment \*\*\*

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.

**Southwestern Energy Company**

**Proposed Drilling Program**

Well: NICK BALLATO BRK 8  
 Field: PANHANDLE FIELD WET  
 County: BROOKE  
 SHL (NAD83): 40.310405 Latitude -80.565305 Longitude  
 BHL (NAD83): 40.262330 Latitude -80.542584 Longitude  
 KB Elev: 985 ft MSL

Re-entry Rig: SDC 40  
 Prospect: Marcellus Shale  
 State: WV



GL Elev: 959 ft MSL

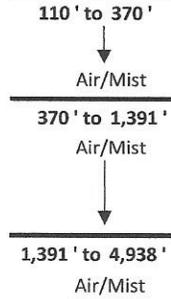
NO COAL VOID EXPECTED

PROD TOC @ 1,371' MD

TUBULAR DETAIL					
Casing String	Casing Size (in)	Weight (Min)	Grade (Min)	Planned Interval	
				From	To
Conductor	20	94.0 #	J-55	0'	110'
Surface	13.375	54.4 #	J-55	0'	350'
Intermediate	9.625	36.0 #	J-55	0'	1,371'
Production	5.5	20.0 #	P-110 HP	0'	23,916'

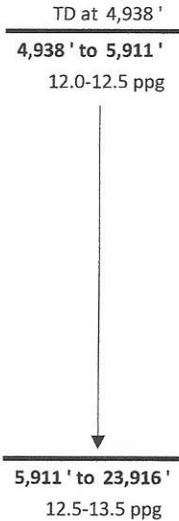
**CEMENT DETAIL**

	Sacks	Class	Density
Conductor	140	A	19.3
Surface	404	A	15.6
Intermediate	525	A	15.6
Production	4381	A	14.5-15.0



KOP at 4,938' MD

Freshwater Depth - 300' TVD  
 Coal Depth - N/A  
 Saltwater Depth - 790' TVD  
 TVD - 5,715'  
 TMD - 23,916'



5,530' TVD Target Center

TD at 23,916' MD ✓  
 5,715' TVD ✓

Onondaga 5,729' TVD

LP at 5,911' MD  
 SHL Onondaga 5,544' TVD

Created by: Sebastian Ziaja on 05/04/2023

*Strader Gower*  
 5/04/2023

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MAY 05 2023

WV Department of  
 Environmental Protection

05/26/2023

WW-9  
(4/16)

API Number 47 - 009 - \_\_\_\_\_  
Operator's Well No. Nick Ballato BRK 8H

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

**FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN**

Operator Name SWN Production Co., LLC OP Code 494512924

Watershed (HUC 10) Upper Ohio North Quadrangle Steubenville East

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes  No

Will a pit be used? Yes  No

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 Number Various Approved Facilities )
- Reuse (at API Number At the next anticipated well )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain recovery and solidification on site )

Will closed loop system be used? If so, describe: Yes- See Attachment 3A

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air drill to KOP, fluid drill with SOBM from KOP to TD

-If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base

Additives to be used in drilling medium? Attachment 3B

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) \_\_\_\_\_

-Landfill or offsite name/permit number? Meadowfill SWF- 1032, Short Creek SWF-1034, Carbon Limestone MSWL018781, Wetzel County 1021

Apex Sanitary Landfill 06-08438, Brooke Co SWF-1013, FMS 353100

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.

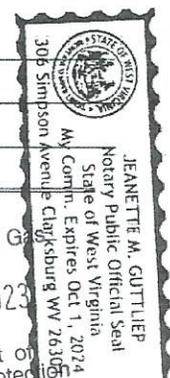
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is 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 Brittany Woody  
Company Official (Typed Name) Brittany Woody  
Company Official Title Senior Regulatory Analyst

Subscribed and sworn before me this 13 day of September, 2022

Grandmutter Notary Public APR 18 2023

My commission expires 10/01/2024



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05/26/2023

**SWN Production Co., LLC**

Proposed Revegetation Treatment: Acres Disturbed 10.91 Prevegetation pH \_\_\_\_\_

Lime as determined by pH test min.2 Tons/acre or to correct to pH 8.0

Fertilizer type 10-20-20

Fertilizer amount 600/500 lbs/acre

Mulch Hay/Straw Tons/acre

**Seed Mixtures**

**Temporary**

**Permanent**

Seed Type lbs/acre

Seed Type lbs/acre

**Attachment 3B**

**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 x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: \_\_\_\_\_

Comments: \_\_\_\_\_

Title: Oil & Gas Inspector

Date: \_\_\_\_\_

Field Reviewed? ( ) Yes ( ) No

*Strader Gower*  
**STRADER GOWER**  
9-25-2022

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APR 18 2023

WV Department of  
Environmental Protection

05/26/2023

# 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: Nick Ballato BRK 8H**  
**Steubenville East QUAD**  
**Cross Creek DISTRICT**  
**Brooke COUNTY, WEST VIRGINIA**

Submitted by:

Name: Brittany Woody

Date: 8/31/2022

*Brittany Woody*

Title: Senior Regulatory Analyst

SWN Production Co., LLC

Approved by:

Name: *John Gowan STRADERLOWE*

Date: 9-15-2022

Title: *Oil & Gas Inspector.*

Approved by:

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Title: \_\_\_\_\_

(2000' SCALE) LATITUDE: 40°20'00" SURFACE HOLE

6651'

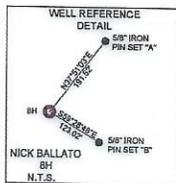
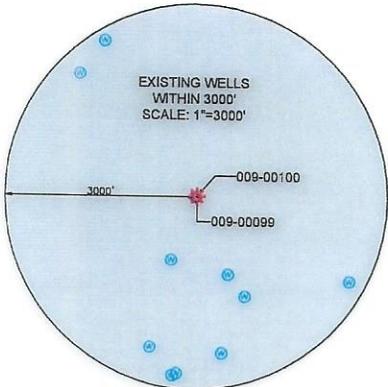
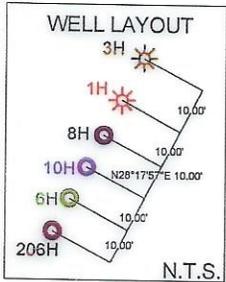
(2000' SCALE) LATITUDE: 40°17'30" BOTTOM HOLE



www.jhacompanies.com

68011 Vineyard Road  
St. Clairsville, Ohio 43950  
740-695-6100

LINE	BEARING	DISTANCE
L1	N19°55'14"W	3680.57'
L2	N58°04'24"W	631.19'



<b>SURFACE HOLE LOCATION (SHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4462300.74 EASTING: 536936.93
<b>LANDING POINT LOCATION (LPL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4462045.79 EASTING: 536890.83
<b>BOTTOM HOLE LOCATION (BHL):</b> UTM (NAD83, ZONE 17, METERS): NORTHING: 4456974.28 EASTING: 538895.10

NOTES ON SURVEY

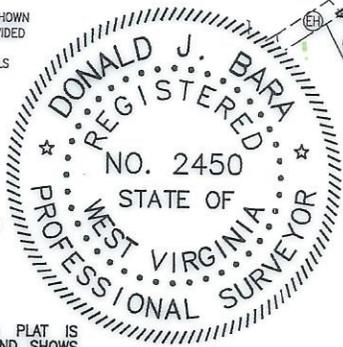
- COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- NO DWELLINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD
- NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.

2000 0 2000

GRAPHIC SCALE IN FEET

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 2450



COMPANY: **SWN** Production Company, LLC

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

MINIMUM DEGREE OF ACCURACY: 1/200

PROVEN SOURCE OF SURVEY GRADE GPS ELEVATION: (NAVD 88, US FT)

NICK BALLATO BRK

OPERATOR'S WELL #: 8H

API WELL #: 47 009 00334

STATE COUNTY PERMIT



WVDEP  
OFFICE OF OIL & GAS  
601 57TH STREET  
CHARLESTON, WV 25034

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

WATERSHED: UPPER OHIO NORTH ELEVATION: 958.6'

DISTRICT: CROSS CREEK COUNTY: BROOKE QUADRANGLE: STEUBENVILLE EAST, OH

SURFACE OWNER: NICHOLAS & CHRISTOPHER BALLATO ACREAGE: ±53.250

OIL & GAS ROYALTY OWNER: NICHOLAS & CHRISTOPHER BALLATO ACREAGE: ±53.250

DRILL  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION

CONVERT  PLUG & ABANDON  CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY) **05/26/2023**

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5715' TVD 23916' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY

ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201

CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

<b>LEGEND:</b>	<b>REVISIONS:</b>	DATE: 04-12-2023
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	○ EXISTING SPRING	API NO: 47-009-XXXX
⊙ EXISTING / PRODUCING WELLHEAD	— NATURAL WATERWAY	DRAWN BY: Z. WOOD
LPL ✕ LANDING POINT LOCATION	— SURVEYED BOUNDARY	SCALE: 1" = 2000'
TPL ✕ TURNING POINT LOCATION	== LEASE BOUNDARY	DRAWING NO: 2017-343
⊙ EXISTING WATER WELL	— PROPOSED PATH	WELL LOCATION PLAT
	— PUBLIC ROAD	

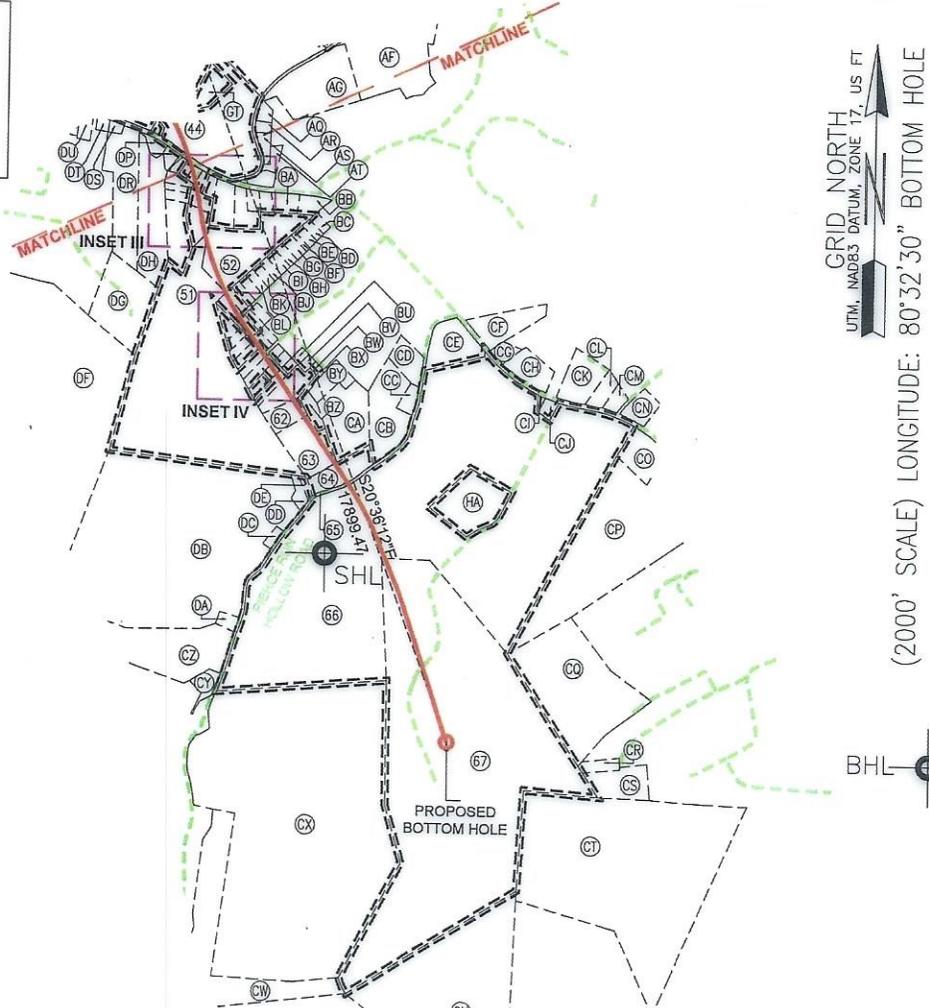
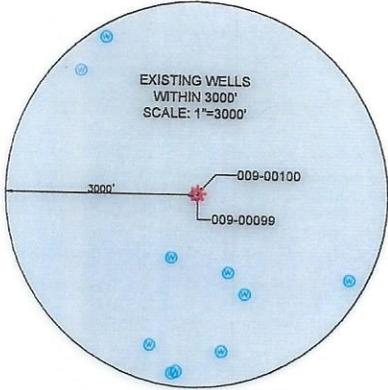
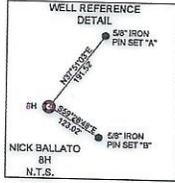
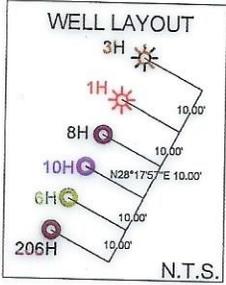
(2000' SCALE) LATITUDE: 40°20'00" SURFACE HOLE

(2000' SCALE) LATITUDE: 40°17'30" BOTTOM HOLE



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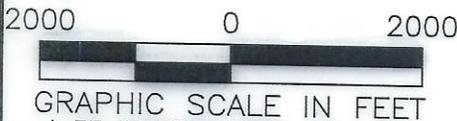
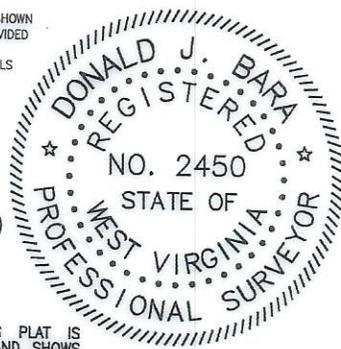


8526'  
10629'  
(2000' SCALE) LONGITUDE: 80°32'30" BOTTOM HOLE  
(2000' SCALE) LONGITUDE: 80°32'30" SURFACE HOLE

<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4462300.74 EASTING: 536936.93
<b>LANDING POINT LOCATION (LPL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4462045.79 EASTING: 536890.83
<b>BOTTOM HOLE LOCATION (BHL):</b>
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**NOTES ON SURVEY**

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- NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.



I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 2450

COMPANY: **SWN** Production Company, LLC **SWN** Production Company™

<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL &amp; GAS 601 57TH STREET CHARLESTON, WV 25034</p>	MINIMUM DEGREE OF ACCURACY: 1/200 PROVEN SOURCE OF SURVEY GRADE GPS ELEVATION: (NAVD 88, US FT)	OPERATOR'S WELL #: NICK BALLATO BRK 8H API WELL #: 47 009 00334 STATE COUNTY PERMIT
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WELL TYPE: OIL  WASTE DISPOSAL  PRODUCTION  DEEP  GAS  LIQUID INJECTION  STORAGE  SHALLOW

WATERSHED: UPPER OHIO NORTH ELEVATION: 958.6'

DISTRICT: CROSS CREEK COUNTY: BROOKE QUADRANGLE: STEUBENVILLE EAST, OH

SURFACE OWNER: NICHOLAS & CHRISTOPHER BALLATO ACREAGE: ±53.250

OIL & GAS ROYALTY OWNER: NICHOLAS & CHRISTOPHER BALLATO ACREAGE: ±53.250

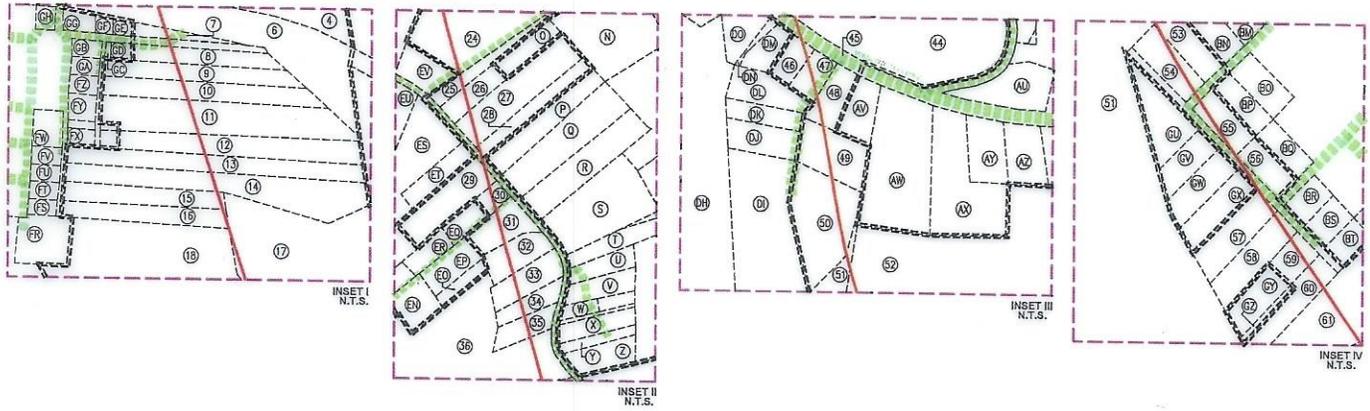
DRILL  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION

CONVERT  PLUG & ABANDON  CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY) **05/26/2023**

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5715' TVD 23916' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	DESIGNATED AGENT: BRITTANY WOODY
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201	ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508	CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

<b>LEGEND:</b> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ✱ EXISTING / PRODUCING WELLHEAD LPL ✱ LANDING POINT LOCATION TPL ✱ TURNING POINT LOCATION ● EXISTING WATER WELL ○ EXISTING SPRING — NATURAL WATERWAY — SURVEYED BOUNDARY = = = = LEASE BOUNDARY — PROPOSED PATH — PUBLIC ROAD	<b>REVISIONS:</b> DATE: 04-12-2023 API NO: 47-009-XXXXX DRAWN BY: Z. WOOD SCALE: 1" = 2000' DRAWING NO: 2017-343 WELL LOCATION PLAT
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WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS			TRACT	SURFACE OWNER	TAX PARCEL
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	36	GRIFFITH ROBERT ALLEN	4-CC23-101
1	BALLATO NICK & CHRISTOPHER	4-CC19-102	37	FERGUSON JENNIFER & JESSICA	4-CC23-100
TRACT	SURFACE OWNER	TAX PARCEL	38	HUBBARD SAMUEL	4-CC23-86
2	FURDA MARLENE & BULLOCK JAMES & MARK	4-C19K-3	39	BEIHL ELWOOD F JR & PATRICIA J (SURV)	4-CC23-97
3	KIDWELL GEORGE SEBECK STEVE ETAL	4-C19K-52	40	BLUE DEVIL CABLE TV INC	4-CC23-96
4	KIDWELL GEORGE STEVE SEBECK ETAL	4-C19K-51	41	WATSON WILLIAM E & MARA L	4-CC23-95
5	RAGAN MICHAEL	4-C19K-50	42	STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS	RABBIT HILL ROAD
6	NORFOLK & WESTERN RAILWAY CO	4-C19K-18	43	MCDONOUGH JEFFREY R; CHARLOTTE D	4-CC23-91
7	DOUGLAS LARRY & DEBBIE	4-C19K-45	44	COOPER MARK H	4-CC23-92
8	DOUGLAS GEORGE L;SAMUEL; WALKER MARGARET ANN	4-C19K-44	45	STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS	WASHINGTON PIKE
9	MILLER JERRY J & JESSICA R (SURV)	4-C19K-43	46	TAYLOR JEFFREY STEPHEN & TASHA M (SURVIVORSHIP)	3-B23R-66
10	SHIMKO JOHN M JR	4-C19K-42	47	YOUNG REBECCA	3-B23R-67
11	GASCHLER ROBERT	4-C19P-41	48	GRIFFITH ROBERT ALLEN (LIFE ESTATE- MARY GRIFFITH)	3-B23R-73
12	KAUFFMAN JUSTIN W	4-C19P-43	49	HADDON ROBIN	3-B23R-72
13	DELATORE WILLIAM LINCOLN & DENISE LYNN ET AL	4-C19P-44	50	DEGARMO ADAM C DARCEY N DEGARMO JTWS	3-B23R-71
14	SHIMKO LORI A & JOHN (JTWS ) L EST EST )MCLAIN PATRICIA A	4-C19P-45	51	BUCY CARMELLA RITA	3-B28-50
15	PEPE TODD A;MITCHELL MICHELE R (LE-FRANCES D PEPE	4-C19P-46	52	HENSLER WILLIAM MATHIAS	3-B23S-4.2
16	NELSON MARILYN L	4-C19P-47	53	MAYNARD CONNIE L	3-B28D-5
17	PITTSBURGH & W VA RAILWAY CO	4-CC19-191	54	SIMALA MARK & JOANN (SURV)	3-B28D-6
18	CHERIPKO HELEN & ELAINE MARCUM JTWS	4-C19P-48	55	DAWSON BRYAN A	3-B28D-19
19	CLARK TODD	4-CC23-51.23	56	QUATTROCHI AIMEE & CORY WILLIAMS JTWS	3-B28D-36
20	BOYD CHARLES A; MCFADDEN JANICE L (SURV)	4-CC23-52	57	GERRARD RUSSELL W	3-B28D-11
21	HART TED JR & RUTH B	4-CC23-51.4	58	IREY JOHN J	3-B28D-12
22	BOYCE LEONARD CRAIG & KAREN MARIE (SURV)	4-CC23-63	59	HILT WAYNE E & GARNET	3-B28D-13
23	HILT JAMES FREDERICK & MABEL IRENE	4-CC23-64	60	HILT WAYNE & GARNETT	3-B28D-14.1
24	BRAHO JOSEPH M & MCGOWAN KATELYN N (JTWS)	4-CC23-66	61	WILSON LORI K	3-B28D-15
25	BOTTORF RONALD C III & KRISTEN R (JTWS)	4-CC23-68	62	FOLK ROBERT F	3-B28D-44
26	MEANS DELLA A	4-CC23-69.1	63	CAMPBELL KURT E & NANCY (SURV)	3-B28D-45
27	WIGAL VICTOR M;RENSI MARY L (SURV)	4-CC23-70	64	BENSON ANTHONY	3-B28-51
28	WIGAL VICTOR M; RENSI MARY L (SURV)	4-CC23-72	65	STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS	PIERCE RUN HOLLOW ROAD
29	NORTHVIEW PROPERTIES LLC	4-CC23-114	66	PARK & RECREATION COMMISSION	3-B28-66
30	NORTHVIEW PROPERTIES LLC	4-CC23-113	67	PARK & RECREATION COMMISSION	3-B28-65
31	LEWIS GERALD TOD LEWIS SANDRA (JTWS)	4-CC23-106			
32	LEWIS GERALD TOD LEWIS SANDRA (JTWS)	4-CC23-105			
33	TAYLOR LESTER JR & KRISTA (SURV)	4-CC23-104			
34	TAYLOR LESTER G	4-CC23-103			
35	TAYLOR LESTER G SR (JWTWS) NANCY	4-CC23-102			

05/26/2023

REVISIONS: 4700900334	COMPANY: <b>SWN</b> Production Company, LLC		<b>SWN</b> <sup>PL</sup> <sup>AV</sup> <sup>+</sup>	
	OPERATOR'S: NICK BALLATO BRK		DATE: 04-12-2023	
	WELL #: 8H		API NO: 47-009-XXXXX	
	DISTRICT: CROSS CREEK	COUNTY: BROOKE	DRAWN BY: Z. WOOD	
		STATE: WV	SCALE: N/A	
			DRAWING NO: 2017-343	
			WELL LOCATION PLAT	

ADJOINING OWNERS TABLE			ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	TRACT	SURFACE OWNER	TAX PARCEL
A	BALLATO NICHOLAS & CHRISTOPHER	4-CC19-192	AR	HENRY JOHN L & BERNICE J (SURV)	4-CC23-331.1
B	GOURLEY GERALD E	4-CC19-103	AS	NICHOLSON RALPH & PATRICIA (SURVIVOR)	4-CC23-331
C	GOURLEY GERALD E	4-C19K-57	AT	STANLEY TIMOTHY J & CASEY L (SURV)	4-CC23-335
D	MARCUM HATTIE	4-C19K-54	AU	MCGOWAN CLARENCE L & KATHERINE A (SURV)	4-CC23-335.1
E	BALLATO NICK & CHRISTOPHER	4-CC19-102	AV	HADDON ROBIN	3-B23R-74
F	OSETEK JOSEPH	4-C19K-53	AW	LONG DIANE E	3-B23S-4
G	NORFOLK & WESTERN RR	4-CC19-105	AX	HENSLER GERALD L	3-B23S-4.3
H	NORFOLK & WESTERN RR	4-CC19-105	AY	HENSLER GERALD L & WINIFRED J	3-B23S-1
I	NICKOLES CAROL L	4-CC19-129	AZ	HENSLER WM M & MARGARET R	3-B23S-2
J	PITTSBURGH & WV RAILROAD	4-CC19-134	BA	HENSLER WM M & MARGARET R	3-B23S-3
K	MARINO WILLIAM & MILDRED T	4-CC19-190	BB	EDWARDS MATTHEW H	3-B23S-4.1
L	COOK FAMILY REVOCABLE TRUST 4/20/17, MALSON SUSAN A	4-CC23-322	BC	PARR BRUCE	3-B23S-7
M	BURCH AMY J	4-CC23-67	BD	PEHANICH DIANNA L	3-B23S-8
N	HENTHORN WILLIAM E	4-CC23-71	BE	PEHANICH DIANA L	3-B23S-9
O	HENTHORN WILLIAM E	4-CC23-69	BF	PEHANICH DIANA L	3-B23S-10
P	WILLEY LYLE WILLIAM & GAIL LYNN HANES	4-CC23-73	BG	BATTISTA JULIE M RODGERS	3-B23S-10.1
Q	WILLEY GAIL LYNN	4-CC23-74	BH	CONAWAY MICHAEL B & LISA A (SURV)	3-B23S-11
R	PHILLIPS KEVIN CHARLES & HEATHER LEE (SURV)	4-CC23-74.1	BI	CONAWAY MICHAEL B & LISA A (SURV)	3-B23S-12
S	SPERLAZZA MARVIN P & LYNN A (SURV)	4-CC23-76	BJ	CONAWAY MICHAEL & LISA (SURV)	3-B23S-13
T	NORTHVIEW PROPERTIES LLC	4-CC23-78.1	BK	FADSE PATRICIA	3-B28D-1
U	HAUGHT JOSEPH B & LISA ANN (SURVIVORSHIP)	4-CC23-79	BL	FADSE PATRICIA & RICHARD VINCENT (JTWS)	3-B28D-2
V	SCHWERTFEGER NORMAN	4-CC23-80	BM	MONTELIONE DAVID K & AUTUMM. (JTWS)	3-B28D-3
W	CORE 24 INC	4-CC23-81	BN	MONTELIONE DAVID K & AUTUM M (JTWS)	3-B28D-4
X	MEADE STEPHEN M & JACKIE D	4-CC23-83	BO	LISH GARY W JR & JOILENE M (SURV)	3-B28D-21
Y	PATTERSON JAMES R	4-CC23-84	BP	DAWSON BRYAN A	3-B28D-20
Z	PATTERSON JAMES R	4-CC23-85	BQ	LAURI JOSEPH M	3-B28D-35
AA	CORWIN BRIAN	4-CC23-78	BR	KEISTER BETTY JOE	3-B28D-18
AB	HUBBARD SAMUEL	4-CC23-318	BS	DEGARMO PATRICK ALAN	3-B28D-17
AC	BANNEN JOHN J	4-CC23-317	BT	BEAR TRAK PROPERTIES LLC	3-B28D-16
AD	THOMPSON DEBRA J	4-CC23-319	BU	BERNARDINI ROBERT A & GINA M (SURV)	3-B28D-39
AE	SILVER CHARLES;HALSTEAD DONNA LIVINGOOD SHERRY (1/3)	4-CC23-327	BV	CARROLL LAWRENCE & DONNA (SURV)	3-B28D-40
AF	YOST CLARA E	4-CC23-328	BW	WILSON LORI K	3-B28D-41
AG	LYKE EUGENE F II	4-CC23-329.1	BX	WILSON LORI K	3-B28D-43
AH	FERGUSON JENNIFER & JESSICA	4-CC23-100	BY	VIDERMAN GEORGE & KAREN (SURV)	3-B28D-46
AI	HUBBARD SAMUEL H & SHELBA J (SURV)	4-CC23-88	BZ	CAMPBELL KURT E & NANCY A (LE-WILLIAM T&NOLA R CAMPBELL)	3-B28D-45.1
AJ	FELL HOWARD F	4-CC23-87	CA	VIDERMAN GEORGE & KAREN (SURV)	3-B28D-47
AK	ROBINSON ROBERT A & JACLYN J (SURV)	4-CC23-86.1	CB	POTTER ELIZABETH ANN	3-B28D-65
AL	HUBBARD SAMUEL H & SHELBA J (JTWS)	4-CC23-86.2	CC	POTTER ELIZABETH A	3-B28D-64
AM	ROBINSON ROBERT A & JACLYN JO (SURV)	4-CC23-99	CD	MILLER SMILEY R MILLER JENNY L (JTWS)	3-B28D-63
AN	ROBINSON ROBERT A & JACLYN JO (SURVIVOR)	4-CC23-98	CE	FRANKLIN CEMETERY ASSOCIATION TRUSTEES	3-B28D-66
AO	MCDONOUGH JEFFREY R ROTHWELL CHARLOTTE D (SURV)	4-CC23-89	CF	FRANKLIN METHODIST CHURCH	4-CC28-10
AP	MCDONOUGH JEFFREY R ROTHWELL CHARLOTTE D (SURV)	4-CC23-90	CG	MOORE MICHAEL A II & MOORE KIMBERLYL (JTWS)	4-CC28-11
AQ	LYKE ANNABELLE	4-CC23-330	CH	BERDINE FLOYD I (TOD)	4-CC29-1

05/26/2023

REVISIONS: 4700900334	COMPANY: 		DATE: 04-12-2023	
	OPERATOR'S NICK BALLATO BRK		API NO: 47-009-XXXXX	
	WELL #: 8H		DRAWN BY: Z. WOOD	
	DISTRICT: CROSS CREEK	COUNTY: BROOKE	STATE: WV	SCALE: N/A
				DRAWING NO: 2017-343
	WELL LOCATION PLAT			

ADJOINING OWNERS TABLE			ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	TRACT	SURFACE OWNER	TAX PARCEL
CI	DEGARMO MARY K HERVEY	3-B29-1	DX	MARKS EDWARD ROBERT JR	4-CC23-309
CJ	THE BROOKE COUNTY PARK & RECREATION	3-B29-2	DY	MARKS EDWARD R JR	4-CC23-305
CK	BOARD OF EDUCATION - BROOKE COUNTY	4-CC29-3	DZ	CALVARESE MARINO & GRACE (SURV)	4-CC23-306
CL	RALSTON CHARLES L & SANDRA	4-CC29-4	EA	CALVARESE MARINO & GRACE (SURV)	4-CC23-307
CM	RALSTON CHARLES L & SANDRA	4-CC29-5	EB	SMITH SHARON M	4-CC23-300
CN	FERGUSON JASON G	4-CC29-76	EC	BELL CHARLES W & BARBARA (SURV)	4-CC23-299
CO	FREE METHODIST CHURCH	3-B29-4	ED	DUDA MICHAEL G & DEBORAH L (SURV)	4-CC23-298
CP	POTTER JAY M II;JOHN PAUL; SAUVE' PENNY POTTER	3-B29E-1	EE	BUCK PAUL J & GLORIA J	4-CC23-289
CQ	RADVANSKY JOHN GABRIEL	3-B29J-7	EF	BROZSTEK TODD A & KELLY R (SURV)	4-CC23-287
CR	COPERICH RICHARD M & BELINDA A (JTWS)	3-B29J-24	EG	MYERS GREGORY A & FRANCES A (JTWS) TOD	4-CC23-288
CS	COPERICH RICHARD M & BELINDA A (JTWS)	3-B29J-25	EH	HENTHORN WILLIAM E	4-CC23-51.21
CT	PARK & RECREATION COMMISSION	3-B29-14	EI	LUNSFORD JAMES	4-CC23-51.17
CU	PARK & RECREATION COMMISSION	3-B28-61	EJ	WILLIS DONNA L	4-CC23-425
CV	BROOKE COUNTY PARK ASSOCIATION	3-B28-60	EK	WILLIS DONNA L	4-CC23-424
CW	STARVAGGI INDUSTRIES INC	3-B28-63	EL	HENTHORN WILLIAM E	4-CC23-51.19
CX	BROOKE COUNTY PARK COMMISSION	3-B28-64	EM	LAZEAR LEONARD & JOAN L	4-CC23-109
CY	KNORR BERNARD JOHN III (L EST) KNORR BERNARD J JR % RUBY F	3-B28-57.1	EN	SMITH DONNA L	4-CC23-108
CZ	HANCHER ERIC DAVID	3-B28-57	EO	FILLINGER PAUL E & MARY M	4-CC23-107
DA	EATON JANICE	3-B28-56	EP	FILLINGER PAUL E & MARY M	4-CC23-110
DB	SCHUPBACH CHARLES EDWARD & ELSIE HELEN (SURV)	3-B28-55	EQ	NORTHVIEW PROPERTIES LLC	4-CC23-112
DC	HANCHER ERIC; GLASURE CHARLOTTE (SURV)	3-B28-54	ER	NORTHVIEW PROPERTIES LLC	4-CC23-111
DD	COEN CORINNA A	3-B28-53	ES	HENTHORN WILLIAM E	4-CC23-115
DE	MALONEY MARY ALICE	3-B28-52	ET	HENTHORN WILLIAM E	4-CC23-71
DF	HERVEY JAMES ROBERT & KAREN L (SURV)	3-B28B-46	EU	HELT JOHN M JR	4-CC23-116
DG	HERVEY JAMES ROBERT & KAREN L	3-B28-49	EV	SMITH JOYCE A	4-CC23-65
DH	HERVEY III WILLIAM JUDSON & THERESA J (SURV)	3-B23R-62.3	EW	HELT JOHN M JR	4-CC23-117
DI	SWN PRODUCTION COMPANY LLC	3-B23R-70	EX	SCHEY JONATHAN & AMANDA JTWS	4-CC23-118
DJ	RAGER RALPH B JR & TERRI (SURV)	3-B23R-69	EY	TAYLOR JAY;COEN CATHY (LE ROBERT G TAYLOR)_	4-CC23-119
DK	LIGHTNER VICKI LYNN	3-B23R-70.1	EZ	PARSONS BOBBIE JO MILLER (LE) CHRISTINE MILLER	4-CC23-120
DL	REES SHAWN P & CRISSY M	3-B23R-68	FA	DEWITT LEONARD E III & BRENDA	4-CC23-121
DM	GALLAGHER SCOTT E & KAREN J (SURV)	3-B23R-65	FB	LEMASTERS LEMOIN A & CHARLENE L	4-CC23-122
DN	HERVEY WILLIAM JUDSON III & THERESA (SURV)	3-B23R-64	FC	LEMASTERS LEMOIN A & CHARLENE L	4-CC23-123
DO	HERVEY WILLIAM JUDSON III & THERESA J (SURV)	3-B23R-63	FD	HANES RANDY M	4-CC23-75
DP	HERVEY WILLIAM JUDSON 1/5 ROBERT 3/5 & MARY KATHERINE 1/5	3-B23R-62	FE	HANES RANDY M	4-CC23-61
DQ	COOPER MARK H	4-CC23-94	FF	RYAN TIMOTHY ALAN	4-CC23-60
DR	HERVEY RUSSELL C & LISA K (SURV)	3-B23R-62.1	FG	RYAN TIMOTHY ALAN	4-CC23-59
DS	HERVEY RUSSELL D & LISA K (SURV)	3-B23R-61.1	FH	NELSON FRANK LEE & CATHY ROSE (SURV)	4-CC23-58
DT	HERVEY MARY KAY	3-B23R-61	FI	HART TED L JR & RUTH B (SURV)	4-CC23-56
DU	LISH PAUL & PATRICIA ANN	3-B23R-57	FJ	BOYD CHARLES A; MCFADDEN JANICE L (SURV)	4-CC23-53
DV	WHITE ROBERT A & NANCY (SURV)	3-B23R-55	FK	MILLER GAREY C	4-CC23-54
DW	HARVEY PATRICK J & VIVIAN	4-CC23-316	FL	KOETSCH WILLIAM F	4-CC23-55
			FM	BASSETT JOHN K SR & MARSHA L (SURV)	4-CC23-45
			FN	BASSETT JOHN K SR & MARSHA L (SURV)	4-CC23-44
			FO	MCGOWAN LARRY E & BEULAH E	4-CC23-36

05/26/2023

REVISIONS: 4700900334	COMPANY: 		DATE: 04-12-2023	
	OPERATOR'S NICK BALLATO BRK		API NO: 47-009-XXXX	
	WELL #: 8H		DRAWN BY: Z. WOOD	
	DISTRICT: CROSS CREEK	COUNTY: BROOKE	STATE: WV	SCALE: N/A
				DRAWING NO: 2017-343
	WELL LOCATION PLAT			

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
FP	MCGOWAN LARRY E & BEULAH E	4-C19P-49
FQ	AURSULESEI DRAGOS & ASHLEY (JTWS)	4-C19P-34
FR	CHERIPKO HELEN & ELAINE MARCUM JTWS	4-C19P-35
FS	NELSON JAMES G & MARILYN L	4-C19P-36
FT	PEPE TODD A; MITCHELL MICHELE R (LE- FRANCES D PEPE)	4-C19P-37
FU	SHIMKO LORI A & JOHN (JTWS)	4-C19P-38
FV	DELATORE WILLIAM LINCOLN & DENISE LYNN	4-C19P-39
FW	SHORTS SANDRA R & JAMES SR (JTWS)	4-C19P-40
FX	RAGAN MICHAEL M & BRENDA A	4-C19P-42
FY	RAGAN MICHAEL M & BRENDA A	4-C19P-41
FZ	SHIMKO JOHN M JR	4-C19K-39
GA	MILLER JERRY J & JESSICA R (SURV)	4-C19K-38
GB	AYERS SHIRLEY L	4-C19K-37
GC	AYERS SHIRLEY	4-C19K-40
GD	DOUGLAS GEORGE; SAMUEL; WALKER MARGARET ANN CASE	4-C19K-41
GE	DOUGLAS GEORGE L; SAMUEL; CASE MARGARET ANN	4-C19K-46
GF	MILLER ALLISON & ZACHARY FADSE JTWS	4-C19K-47
GG	TAYLOR SUSAN	4-C19K-48
GH	UNKNOWN OWNER	4-C19K-12
GI	RAGAN MAXINE	4-C19K-9
GJ	KIDWELL GEORGE SEBECK STEVE ETAL	4-C19K-8
GK	MCCOY PHILLIP & LUCY (SURV)	4-C19K-7
GL	HUFF THERESA A	4-C19K-6
GM	HUFF THERESA A	4-C19K-4
GN	FURDA MARLENE D & GREG A	4-C19K-2
GO	FERDA MARLENE ETAL EACH@1/3	4-C19K-1
GP	RIDGETOP APPALACHIA, LLC	4-CC19-100
GQ	FERDA MARLENE ETAL EACH @ 13	4-CC19-99
GR	FERDA MARLENE ETAL EACH @ 1/3	4-CC19-97
GS	WILLEY MELINDA	4-CC23-51.24
GT	COOPER MARK H	4-CC23-93
GU	STEWART DOUGLAS; STEWART JENNIFER	3-B28D-7
GV	STEWART DOUGLAS; STEWART JENNIFER (JTWS)	3-B28D-8
GW	BENNETT GLENN R & CORA B	3-B28D-9
GX	BENNETT GLENN R & CORA B	3-B28D-10
GY	BROOKE COUNTY PUBLIC SERVICE DISTRICT	3-B28D-13.1
GZ	BROOKE COUNTY PUBLIC SERVICE DISTRICT	3-B28D-14
HA	BROOKE COUNTY PARK ASSOCIATION	3-B28-67

05/26/2023

REVISIONS: 47009 00334	 	
	COMPANY: NICK BALLATO BRK	
	OPERATOR'S: NICK BALLATO BRK	
	WELL #: 8H	
	DISTRICT: CROSS CREEK	COUNTY: BROOKE
		STATE: WV
	DATE: 04-12-2023 API NO: 47-009-XXXXX DRAWN BY: Z. WOOD SCALE: N/A DRAWING NO: 2017-343 WELL LOCATION PLAT	

WW-6A1  
(5/13)

Operator's Well No. NICK BALLATO BRK 8H

**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"				

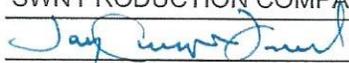
\*Co-tenancy utilization - At least 75% of the royalty owners have consented to the lawful use or development of the oil or natural gas mineral property on the tract. The interests of the remaining co-tenants will be secured pursuant to the Co-tenancy Modernization and Majority Protection Act.

**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:   
 Its: Cooper Farish, Staff Landman

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	Interest Not Leased by SWN Production Company, LLC
1)	4-CC19-102	Nicholas Jay Ballato, single, and Christopher A. Ballato and Ruth V. Ballato, husband and wife	Great Lakes Energy Partners, LLC SWN Production Company, LLC	14.00%	LB 9/720 LB 30/557	0.0000%
		Nicholas Jay Ballato, single, and Christopher A. Ballato and Ruth V. Ballato, husband and wife	Great Lakes Energy Partners, LLC SWN Production Company, LLC	14.00%	LB 9/720 LB 30/557	
2)	4-C19K-3	Marlene D. Furda, married, dealing in her separate property	SWN Production Company, LLC	18.00%	LB 61/103	0.0000%
		James L. Bullock, married, dealing in his separate property	SWN Production Company, LLC	18.00%	LB 61/589	
		Mark E. Bullock, married, dealing in his separate property	SWN Production Company, LLC	18.00%	LB 61/554	
3)	4-C19K-52	Royalty Owner	UNLEASED	N/A	N/A	1.3889%
		David Greenberg and Ruth Greenberg, husband and wife	SWN Production Company, LLC	16.00%	LB 45/83	
		Samuel Greenberg and Beverly Greenberg	SWN Production Company, LLC	16.00%	LB 44/191	
		Theodore Rudolph and Ethel L. Rudolph, husband and wife	SWN Production Company, LLC	16.00%	LB 44/201	
		Helen M. Greenberg, a widow	SWN Production Company, LLC	18.00%	LB 53/65	
		Judi L. Smithco and Jeffrey Smithco, wife and husband	SWN Production Company, LLC	18.00%	LB 53/208	
		Joshua Krinock and Taylor L. Roberts, husband and wife	SWN Production Company, LLC	18.00%	LB 54/122	
		Stephanie Randell and Richard Randell, wife and husband	SWN Production Company, LLC	18.00%	LB 53/793	
		Blake Randell, a single man	SWN Production Company, LLC	18.00%	LB 54/1	
		Honore S. Galli & Robert D. Galli, wife and husband	SWN Production Company, LLC	18.00%	LB 54/90	
		Patricia A. Nutz and Michael A. Nutz Jr., wife and husband	SWN Production Company, LLC	18.00%	LB 54/169	
		John Murski and Julie A. Murski, husband and wife	SWN Production Company, LLC	18.00%	LB 54/317	
		Robert J. Greenberg and Laura Greenberg	SWN Production Company, LLC	18.00%	LB 55/97	
		SWN Production Company, LLC	Operator Owned Minerals		DB 397/707	
		SWN Production Company, LLC	Operator Owned Minerals		DB 397/673	
SWN Production Company, LLC	Operator Owned Minerals		DB 397/690			
SWN Production Company, LLC	Operator Owned Minerals		DB 411/669			
SWN Production Company, LLC	Operator Owned Minerals		DB 411/360			
SWN Production Company, LLC	Operator Owned Minerals		DB 411/363			
4)	4-C19K-51	Royalty Owner	UNLEASED	N/A	N/A	1.3889%
		David Greenberg and Ruth Greenberg, husband and wife	SWN Production Company, LLC	16.00%	LB 45/83	
		Samuel Greenberg and Beverly Greenberg	SWN Production Company, LLC	16.00%	LB 44/191	
		Theodore Rudolph and Ethel L. Rudolph, husband and wife	SWN Production Company, LLC	16.00%	LB 44/201	
		Helen M. Greenberg, a widow	SWN Production Company, LLC	18.00%	LB 53/65	
		Judi L. Smithco and Jeffrey Smithco, wife and husband	SWN Production Company, LLC	18.00%	LB 53/208	
		Joshua Krinock and Taylor L. Roberts, husband and wife	SWN Production Company, LLC	18.00%	LB 54/122	
		Stephanie Randell and Richard Randell, wife and husband	SWN Production Company, LLC	18.00%	LB 53/793	
		Blake Randell, a single man	SWN Production Company, LLC	18.00%	LB 54/1	
		Honore S. Galli & Robert D. Galli, wife and husband	SWN Production Company, LLC	18.00%	LB 54/90	
		Patricia A. Nutz and Michael A. Nutz Jr., wife and husband	SWN Production Company, LLC	18.00%	LB 54/169	
		John Murski and Julie A. Murski, husband and wife	SWN Production Company, LLC	18.00%	LB 54/317	
		Robert J. Greenberg and Laura Greenberg	SWN Production Company, LLC	18.00%	LB 55/97	
		SWN Production Company, LLC	Operator Owned Minerals		DB 397/707	
		SWN Production Company, LLC	Operator Owned Minerals		DB 397/673	
SWN Production Company, LLC	Operator Owned Minerals		DB 397/690			
SWN Production Company, LLC	Operator Owned Minerals		DB 411/669			
SWN Production Company, LLC	Operator Owned Minerals		DB 411/360			
SWN Production Company, LLC	Operator Owned Minerals		DB 411/363			
5)	4-C19K-50	Royalty Owner	UNLEASED	N/A	N/A	1.3889%
		David Greenberg and Ruth Greenberg, husband and wife	SWN Production Company, LLC	16.00%	LB 45/83	
		Samuel Greenberg and Beverly Greenberg	SWN Production Company, LLC	16.00%	LB 44/191	
		Theodore Rudolph and Ethel L. Rudolph, husband and wife	SWN Production Company, LLC	16.00%	LB 44/201	
		Helen M. Greenberg, a widow	SWN Production Company, LLC	18.00%	LB 53/65	
		Judi L. Smithco and Jeffrey Smithco, wife and husband	SWN Production Company, LLC	18.00%	LB 53/208	
		Joshua Krinock and Taylor L. Roberts, husband and wife	SWN Production Company, LLC	18.00%	LB 54/122	
		Stephanie Randell and Richard Randell, wife and husband	SWN Production Company, LLC	18.00%	LB 53/793	
		Blake Randell, a single man	SWN Production Company, LLC	18.00%	LB 54/1	
		Honore S. Galli & Robert D. Galli, wife and husband	SWN Production Company, LLC	18.00%	LB 54/90	
		Patricia A. Nutz and Michael A. Nutz Jr., wife and husband	SWN Production Company, LLC	18.00%	LB 54/169	
		John Murski and Julie A. Murski, husband and wife	SWN Production Company, LLC	18.00%	LB 54/317	
		Robert J. Greenberg and Laura Greenberg	SWN Production Company, LLC	18.00%	LB 55/97	
		SWN Production Company, LLC	Operator Owned Minerals		DB 397/707	
		SWN Production Company, LLC	Operator Owned Minerals		DB 397/673	

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  
 Nick Ballato BRK 8H  
 Brooke County, West Virginia

		SWN ProductionCompany, LLC	Operator Owned Minerals		DB 397/690	
		SWN ProductionCompany, LLC	Operator Owned Minerals		DB 411/669	
		SWN ProductionCompany, LLC	Operator Owned Minerals		DB 411/360	
		SWN ProductionCompany, LLC	Operator Owned Minerals		DB 411/363	
6)	4-C19K-18	Wheeling & Lake Erie Railway Company, sublessee of the Pittsburgh & West Virginia Railway Company	SWN Production Company, LLC	18.00%	LB 53/702	0.0000%
		Royalty Owner	UNLEASED	N/A	N/A	1.3889%
		David Greenberg and Ruth Greenberg, husband and wife	SWN Production Company, LLC	16.00%	LB 45/83	
		Samuel Greenberg and Beverly Greenberg	SWN Production Company, LLC	16.00%	LB 44/191	
		Theodore Rudolph and Ethel L. Rudolph, husband and wife	SWN Production Company, LLC	16.00%	LB 44/201	
		Helen M. Greenberg, a widow	SWN Production Company, LLC	18.00%	LB 53/65	
		Judi L. Smithco and Jeffrey Smithco, wife and husband	SWN Production Company, LLC	18.00%	LB 53/208	
		Joshua Krinock and Taylor L. Roberts, husband and wife	SWN Production Company, LLC	18.00%	LB 54/122	
		Stephanie Randell and Richard Randell, wife and husband	SWN Production Company, LLC	18.00%	LB 53/793	
7)	4-C19K-45	Blake Randell, a single man	SWN Production Company, LLC	18.00%	LB 54/1	
		Honore S. Galli & Robert D. Galli, wife and husband	SWN Production Company, LLC	18.00%	LB 54/90	
		Patricia A. Nutz and Michael A. Nutz Jr., wife and husband	SWN Production Company, LLC	18.00%	LB 54/169	
		John Murski and Julie A. Murski, husband and wife	SWN Production Company, LLC	18.00%	LB 54/317	
		Robert J. Greenberg and Laura Greenberg	SWN Production Company, LLC	18.00%	LB 55/97	
		SWN ProductionCompany, LLC	Operator Owned Minerals		DB 397/707	
		SWN ProductionCompany, LLC	Operator Owned Minerals		DB 397/673	
		SWN ProductionCompany, LLC	Operator Owned Minerals		DB 397/690	
		SWN ProductionCompany, LLC	Operator Owned Minerals		DB 411/669	
		SWN ProductionCompany, LLC	Operator Owned Minerals		DB 411/360	
		SWN ProductionCompany, LLC	Operator Owned Minerals		DB 411/363	
		Royalty Owner	UNLEASED	N/A	N/A	
		David Greenberg and Ruth Greenberg, husband and wife	SWN Production Company, LLC	16.00%	LB 45/83	
		Samuel Greenberg and Beverly Greenberg	SWN Production Company, LLC	16.00%	LB 44/191	
		Theodore Rudolph and Ethel L. Rudolph, husband and wife	SWN Production Company, LLC	16.00%	LB 44/201	
		Helen M. Greenberg, a widow	SWN Production Company, LLC	18.00%	LB 53/65	
		Judi L. Smithco and Jeffrey Smithco, wife and husband	SWN Production Company, LLC	18.00%	LB 53/208	
		Joshua Krinock and Taylor L. Roberts, husband and wife	SWN Production Company, LLC	18.00%	LB 54/122	
		Stephanie Randell and Richard Randell, wife and husband	SWN Production Company, LLC	18.00%	LB 53/793	
8)	4-C19K-44	Blake Randell, a single man	SWN Production Company, LLC	18.00%	LB 54/1	
		Honore S. Galli & Robert D. Galli, wife and husband	SWN Production Company, LLC	18.00%	LB 54/90	
		Patricia A. Nutz and Michael A. Nutz Jr., wife and husband	SWN Production Company, LLC	18.00%	LB 54/169	
		John Murski and Julie A. Murski, husband and wife	SWN Production Company, LLC	18.00%	LB 54/317	
		Robert J. Greenberg and Laura Greenberg	SWN Production Company, LLC	18.00%	LB 55/97	
		SWN ProductionCompany, LLC	Operator Owned Minerals		DB 397/707	
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		SWN ProductionCompany, LLC	Operator Owned Minerals		DB 411/669	
		SWN ProductionCompany, LLC	Operator Owned Minerals		DB 411/360	
		SWN ProductionCompany, LLC	Operator Owned Minerals		DB 411/363	
		Royalty Owner	UNLEASED	N/A	N/A	1.3889%
		David Greenberg and Ruth Greenberg, husband and wife	SWN Production Company, LLC	16.00%	LB 45/83	
		Samuel Greenberg and Beverly Greenberg	SWN Production Company, LLC	16.00%	LB 44/191	
		Theodore Rudolph and Ethel L. Rudolph, husband and wife	SWN Production Company, LLC	16.00%	LB 44/201	
		Helen M. Greenberg, a widow	SWN Production Company, LLC	18.00%	LB 53/65	
		Judi L. Smithco and Jeffrey Smithco, wife and husband	SWN Production Company, LLC	18.00%	LB 53/208	
		Joshua Krinock and Taylor L. Roberts, husband and wife	SWN Production Company, LLC	18.00%	LB 54/122	
		Stephanie Randell and Richard Randell, wife and husband	SWN Production Company, LLC	18.00%	LB 53/793	
9)	4-C19K-43	Blake Randell, a single man	SWN Production Company, LLC	18.00%	LB 54/1	
		Honore S. Galli & Robert D. Galli, wife and husband	SWN Production Company, LLC	18.00%	LB 54/90	
		Patricia A. Nutz and Michael A. Nutz Jr., wife and husband	SWN Production Company, LLC	18.00%	LB 54/169	
		John Murski and Julie A. Murski, husband and wife	SWN Production Company, LLC	18.00%	LB 54/317	
		Robert J. Greenberg and Laura Greenberg	SWN Production Company, LLC	18.00%	LB 55/97	
		SWN ProductionCompany, LLC	Operator Owned Minerals		DB 397/707	
		SWN ProductionCompany, LLC	Operator Owned Minerals		DB 397/673	
		SWN ProductionCompany, LLC	Operator Owned Minerals		DB 397/690	
		SWN ProductionCompany, LLC	Operator Owned Minerals		DB 411/669	
		SWN ProductionCompany, LLC	Operator Owned Minerals		DB 411/360	
		SWN ProductionCompany, LLC	Operator Owned Minerals		DB 411/363	
		Royalty Owner	UNLEASED	N/A	N/A	1.3889%
		David Greenberg and Ruth Greenberg, husband and wife	SWN Production Company, LLC	16.00%	LB 45/83	

05/26/2023

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  
 Nick Ballato BRK 8H  
 Brooke County, West Virginia

		Samuel Greenberg and Beverly Greenberg	SWN Production Company, LLC	16.00%	LB 44/191	
		Theodore Rudolph and Ethel L. Rudolph, husband and wife	SWN Production Company, LLC	16.00%	LB 44/201	
		Helen M. Greenberg, a widow	SWN Production Company, LLC	18.00%	LB 53/65	
		Judi L. Smithco and Jeffrey Smithco, wife and husband	SWN Production Company, LLC	18.00%	LB 53/208	
		Joshua Krinock and Taylor L. Roberts, husband and wife	SWN Production Company, LLC	18.00%	LB 54/122	
		Stephanie Randell and Richard Randell, wife and husband	SWN Production Company, LLC	18.00%	LB 53/793	
10)	4-C19K-42	Blake Randell, a single man	SWN Production Company, LLC	18.00%	LB 54/1	
		Honore S. Galli & Robert D. Galli, wife and husband	SWN Production Company, LLC	18.00%	LB 54/90	
		Patricia A. Nutz and Michael A. Nutz Jr., wife and husband	SWN Production Company, LLC	18.00%	LB 54/169	
		John Murski and Julie A. Murski, husband and wife	SWN Production Company, LLC	18.00%	LB 54/317	
		Robert J. Greenberg and Laura Greenberg	SWN Production Company, LLC	18.00%	LB 55/97	
		SWN Production Company, LLC	Operator Owned Minerals		DB 397/707	
		SWN Production Company, LLC	Operator Owned Minerals		DB 397/673	
		SWN Production Company, LLC	Operator Owned Minerals		DB 397/690	
		SWN Production Company, LLC	Operator Owned Minerals		DB 411/669	
		SWN Production Company, LLC	Operator Owned Minerals		DB 411/360	
		SWN Production Company, LLC	Operator Owned Minerals		DB 411/363	
		Royalty Owner	UNLEASED	N/A	N/A	1.3889%
		David Greenberg and Ruth Greenberg, husband and wife	SWN Production Company, LLC	16.00%	LB 45/83	
		Samuel Greenberg and Beverly Greenberg	SWN Production Company, LLC	16.00%	LB 44/191	
		Theodore Rudolph and Ethel L. Rudolph, husband and wife	SWN Production Company, LLC	16.00%	LB 44/201	
		Helen M. Greenberg, a widow	SWN Production Company, LLC	18.00%	LB 53/65	
		Judi L. Smithco and Jeffrey Smithco, wife and husband	SWN Production Company, LLC	18.00%	LB 53/208	
		Joshua Krinock and Taylor L. Roberts, husband and wife	SWN Production Company, LLC	18.00%	LB 54/122	
		Stephanie Randell and Richard Randell, wife and husband	SWN Production Company, LLC	18.00%	LB 53/793	
11)	4-C19P-41	Blake Randell, a single man	SWN Production Company, LLC	18.00%	LB 54/1	
		Honore S. Galli & Robert D. Galli, wife and husband	SWN Production Company, LLC	18.00%	LB 54/90	
		Patricia A. Nutz and Michael A. Nutz Jr., wife and husband	SWN Production Company, LLC	18.00%	LB 54/169	
		John Murski and Julie A. Murski, husband and wife	SWN Production Company, LLC	18.00%	LB 54/317	
		Robert J. Greenberg and Laura Greenberg	SWN Production Company, LLC	18.00%	LB 55/97	
		SWN Production Company, LLC	Operator Owned Minerals		DB 397/707	
		SWN Production Company, LLC	Operator Owned Minerals		DB 397/673	
		SWN Production Company, LLC	Operator Owned Minerals		DB 397/690	
		SWN Production Company, LLC	Operator Owned Minerals		DB 411/669	
		SWN Production Company, LLC	Operator Owned Minerals		DB 411/360	
		SWN Production Company, LLC	Operator Owned Minerals		DB 411/363	
		Royalty Owner	UNLEASED	N/A	N/A	1.3889%
		David Greenberg and Ruth Greenberg, husband and wife	SWN Production Company, LLC	16.00%	LB 45/83	
		Samuel Greenberg and Beverly Greenberg	SWN Production Company, LLC	16.00%	LB 44/191	
		Theodore Rudolph and Ethel L. Rudolph, husband and wife	SWN Production Company, LLC	16.00%	LB 44/201	
		Helen M. Greenberg, a widow	SWN Production Company, LLC	18.00%	LB 53/65	
		Judi L. Smithco and Jeffrey Smithco, wife and husband	SWN Production Company, LLC	18.00%	LB 53/208	
		Joshua Krinock and Taylor L. Roberts, husband and wife	SWN Production Company, LLC	18.00%	LB 54/122	
		Stephanie Randell and Richard Randell, wife and husband	SWN Production Company, LLC	18.00%	LB 53/793	
12)	4-C19P-43	Blake Randell, a single man	SWN Production Company, LLC	18.00%	LB 54/1	
		Honore S. Galli & Robert D. Galli, wife and husband	SWN Production Company, LLC	18.00%	LB 54/90	
		Patricia A. Nutz and Michael A. Nutz Jr., wife and husband	SWN Production Company, LLC	18.00%	LB 54/169	
		John Murski and Julie A. Murski, husband and wife	SWN Production Company, LLC	18.00%	LB 54/317	
		Robert J. Greenberg and Laura Greenberg	SWN Production Company, LLC	18.00%	LB 55/97	
		SWN Production Company, LLC	Operator Owned Minerals		DB 397/707	
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		SWN Production Company, LLC	Operator Owned Minerals		DB 397/690	
		SWN Production Company, LLC	Operator Owned Minerals		DB 411/669	
		SWN Production Company, LLC	Operator Owned Minerals		DB 411/360	
		SWN Production Company, LLC	Operator Owned Minerals		DB 411/363	
		Royalty Owner	UNLEASED	N/A	N/A	1.3889%
		David Greenberg and Ruth Greenberg, husband and wife	SWN Production Company, LLC	16.00%	LB 45/83	
		Samuel Greenberg and Beverly Greenberg	SWN Production Company, LLC	16.00%	LB 44/191	
		Theodore Rudolph and Ethel L. Rudolph, husband and wife	SWN Production Company, LLC	16.00%	LB 44/201	
		Helen M. Greenberg, a widow	SWN Production Company, LLC	18.00%	LB 53/65	
		Judi L. Smithco and Jeffrey Smithco, wife and husband	SWN Production Company, LLC	18.00%	LB 53/208	
		Joshua Krinock and Taylor L. Roberts, husband and wife	SWN Production Company, LLC	18.00%	LB 54/122	
		Stephanie Randell and Richard Randell, wife and husband	SWN Production Company, LLC	18.00%	LB 53/793	

13)	4-C19P-44	Blake Randell, a single man	SWN Production Company, LLC	18.00%	LB 54/1			
		Honore S. Galli & Robert D. Galli, wife and husband	SWN Production Company, LLC	18.00%	LB 54/90			
		Patricia A. Nutz and Michael A. Nutz Jr., wife and husband	SWN Production Company, LLC	18.00%	LB 54/169			
		John Murski and Julie A. Murski, husband and wife	SWN Production Company, LLC	18.00%	LB 54/317			
		Robert J. Greenberg and Laura Greenberg	SWN Production Company, LLC	18.00%	LB 55/97			
		SWN Production Company, LLC	Operator Owned Minerals		DB 397/707			
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		SWN Production Company, LLC	Operator Owned Minerals		DB 397/690			
		SWN Production Company, LLC	Operator Owned Minerals		DB 411/669			
		SWN Production Company, LLC	Operator Owned Minerals		DB 411/360			
		SWN Production Company, LLC	Operator Owned Minerals		DB 411/363			
		Royalty Owner	UNLEASED	N/A	N/A	1.3889%		
14)	4-C19P-45	David Greenberg and Ruth Greenberg, husband and wife	SWN Production Company, LLC	16.00%	LB 45/83			
		Samuel Greenberg and Beverly Greenberg	SWN Production Company, LLC	16.00%	LB 44/191			
		Theodore Rudolph and Ethel L. Rudolph, husband and wife	SWN Production Company, LLC	16.00%	LB 44/201			
		Helen M. Greenberg, a widow	SWN Production Company, LLC	18.00%	LB 53/65			
		Judi L. Smithco and Jeffrey Smithco, wife and husband	SWN Production Company, LLC	18.00%	LB 53/208			
		Joshua Krinock and Taylor L. Roberts, husband and wife	SWN Production Company, LLC	18.00%	LB 54/122			
		Stephanie Randell and Richard Randell, wife and husband	SWN Production Company, LLC	18.00%	LB 53/793			
		Blake Randell, a single man	SWN Production Company, LLC	18.00%	LB 54/1			
		Honore S. Galli & Robert D. Galli, wife and husband	SWN Production Company, LLC	18.00%	LB 54/90			
		Patricia A. Nutz and Michael A. Nutz Jr., wife and husband	SWN Production Company, LLC	18.00%	LB 54/169			
15)	4-C19P-46	John Murski and Julie A. Murski, husband and wife	SWN Production Company, LLC	18.00%	LB 54/317			
		Robert J. Greenberg and Laura Greenberg	SWN Production Company, LLC	18.00%	LB 55/97			
		SWN Production Company, LLC	Operator Owned Minerals		DB 397/707			
		SWN Production Company, LLC	Operator Owned Minerals		DB 397/673			
		SWN Production Company, LLC	Operator Owned Minerals		DB 397/690			
		SWN Production Company, LLC	Operator Owned Minerals		DB 411/669			
		SWN Production Company, LLC	Operator Owned Minerals		DB 411/360			
		SWN Production Company, LLC	Operator Owned Minerals		DB 411/363			
				Royalty Owner	UNLEASED	N/A	N/A	1.3889%
		16)	4-C19P-47	David Greenberg and Ruth Greenberg, husband and wife	SWN Production Company, LLC	16.00%	LB 45/83	
Samuel Greenberg and Beverly Greenberg	SWN Production Company, LLC			16.00%	LB 44/191			
Theodore Rudolph and Ethel L. Rudolph, husband and wife	SWN Production Company, LLC			16.00%	LB 44/201			
Helen M. Greenberg, a widow	SWN Production Company, LLC			18.00%	LB 53/65			
Judi L. Smithco and Jeffrey Smithco, wife and husband	SWN Production Company, LLC			18.00%	LB 53/208			
Joshua Krinock and Taylor L. Roberts, husband and wife	SWN Production Company, LLC			18.00%	LB 54/122			
Stephanie Randell and Richard Randell, wife and husband	SWN Production Company, LLC			18.00%	LB 53/793			
Blake Randell, a single man	SWN Production Company, LLC			18.00%	LB 54/1			
Honore S. Galli & Robert D. Galli, wife and husband	SWN Production Company, LLC			18.00%	LB 54/90			
Patricia A. Nutz and Michael A. Nutz Jr., wife and husband	SWN Production Company, LLC			18.00%	LB 54/169			
16)	4-C19P-47	John Murski and Julie A. Murski, husband and wife	SWN Production Company, LLC	18.00%	LB 54/317			
		Robert J. Greenberg and Laura Greenberg	SWN Production Company, LLC	18.00%	LB 55/97			
		SWN Production Company, LLC	Operator Owned Minerals		DB 397/707			
		SWN Production Company, LLC	Operator Owned Minerals		DB 397/673			

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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  
 Nick Ballato BRK 8H  
 Brooke County, West Virginia

Royalty Owner	UNLEASED	N/A	N/A	5.2134%
SWN Production Company, LLC	Operator Owned Minerals		DB 397/690	
SWN Production Company, LLC	Operator Owned Minerals		DB 411/669	
SWN Production Company, LLC	Operator Owned Minerals		DB 411/360	
SWN Production Company, LLC	Operator Owned Minerals		DB 411/363	
Wheeling & Lake Erie Railway Company, sublessee of the Pittsburgh & West Virginia Railway Company	SWN Production Company, LLC	18.00%	LB 53/703	
Amber McCullah, a married woman dealing in her sole and separate property	SWN Production Company, LLC	16.00%	LB 52/774	
Amy Speis, a divorced woman	SWN Production Company, LLC	16.00%	LB 54/716	
April L. Russell, divorced	SWN Production Company, LLC	16.00%	LB 46/557	
Arthur Coulter, Jr., a single man	SWN Production Company, LLC	16.00%	LB 55/669	
Barbara Palmer, widow	SWN Production Company, LLC	18.00%	LB 62/357	
Bernice Francis, a widow	SWN Production Company, LLC	16.00%	LB 59/660	
Bonnie A. McKee and William G. McKee, wife and husband	SWN Production Company, LLC	16.00%	LB 45/391	
Brian L. Henthorn, a single man	SWN Production Company, LLC	16.00%	LB 52/283	
Bruce T. Michaux and Lisa M. Michaux, husband and wife	SWN Production Company, LLC	16.00%	LB 43/789	
Bruce W. DeGarmo, Jr., single	SWN Production Company, LLC	16.00%	LB 46/79	
Carl R. Smith and Kimberly Smith, husband and wife	SWN Production Company, LLC	16.00%	LB 52/291	
Carmel A. Swartz married, dealing in her sole and separate property	SWN Production Company, LLC	18.00%	LB 63/486	
Carol Carle, widow	SWN Production Company, LLC	16.00%	LB 55/193	
Caroline M. Mendis, widow	SWN Production Company, LLC	18.00%	LB 61/565	
Carrie Warren and Thomas Warren, wife and husband	SWN Production Company, LLC	16.00%	LB 54/541	
Catherine L. Wolfe, divorced	SWN Production Company, LLC	16.00%	LB 45/384	
Catherine S. Veverka, widow	SWN Production Company, LLC	15.00%	LB 52/730	
Charles A. Cook, divorced	SWN Production Company, LLC	16.00%	LB 45/695	
Chelsea Holloway, a single woman	SWN Production Company, LLC	16.00%	LB 54/549	
Cheryl Bluthardt and John Bluthardt, wife and husband	SWN Production Company, LLC	16.00%	LB 54/383	
Clifton Leroy Henthorn and Janette Henthorn, husband and wife	SWN Production Company, LLC	16.00%	LB 52/347	
Crystal M. McCaddon, a married woman dealing in her sole and separate property	SWN Production Company, LLC	16.00%	LB 52/746	
Dail Celeste Herrmann-Mehsling and Thomas Mehsling, wife and husband	SWN Production Company, LLC	16.00%	LB 56/182	
Danielle Smalley, a single woman	SWN Production Company, LLC	16.00%	LB 54/333	
Danyle Doubles, a divorced woman	SWN Production Company, LLC	15.00%	LB 52/722	
Darin Martin, widow	SWN Production Company, LLC	16.00%	LB 61/368	
David C. Heintz and Kathy S. Heintz, husband and wife	SWN Production Company, LLC	16.00%	LB 53/420	
David Coleman and Rosemarie Coleman, husband and wife	SWN Production Company, LLC	15.00%	LB 52/615	
David DeGarmo, a single man	SWN Production Company, LLC	16.00%	LB 52/754	
David F. Morris, Jr. and Shirley Morris, husband and wife	SWN Production Company, LLC	16.00%	LB 55/631	
David M. Himmelrick and Robin L. Himmelrick, husband and wife	SWN Production Company, LLC	15.00%	LB 55/230	
David S. DeGarmo, single	SWN Production Company, LLC	16.00%	LB 46/37	
Deborah L. Williams, a widow	SWN Production Company, LLC	16.00%	LB 43/782	
Delbert A. Morris, a single man	SWN Production Company, LLC	18.00%	LB 54/161	
Denise DeGarmo, a single woman	SWN Production Company, LLC	16.00%	LB 53/561	
Denise Doubles, a married woman dealing in her sole and separate property	SWN Production Company, LLC	15.00%	LB 52/623	
Donald Moyer and Melissa Moyer, husband and wife	SWN Production Company, LLC	16.00%	LB 54/533	
Donald R. Michaux, Jr. and Susan M. Michaux, husband and wife	SWN Production Company, LLC	16.00%	LB 44/1	
Donald W. Junker, a widower	SWN Production Company, LLC	16.00%	LB 53/176	
Donna L. Ruckman f/k/a Donna Hambel, married, dealing in her sole and separate property	SWN Production Company, LLC	18.00%	LB 63/195	
Donnelly Rachael Smith, single	SWN Production Company, LLC	16.00%	LB 61/456	
Douglas A. Sarkis and Susan J. Sarkis, husband and wife	SWN Production Company, LLC	15.00%	LB 53/484	
Edna Fuller, widow	SWN Production Company, LLC	18.00%	LB 61/577	
Elizabeth Stevens, a widow	SWN Production Company, LLC	16.00%	LB 53/593	
Ella Mae Hayman, a widow	SWN Production Company, LLC	15.00%	LB 53/388	
Emily F. Murphy, widow	SWN Production Company, LLC	18.00%	LB 63/243	
Estate of Donald W. Hanlon, by Dail Herrmann-Mehsling, Individually and as Personal Representative	SWN Production Company, LLC	16.00%	LB 62/351	
Gary P. Henthorn Sr. and Cheryl Henthorn, husband and wife	SWN Production Company, LLC	16.00%	LB 52/222	
Gary Paul Henthorn, Jr., a single man	SWN Production Company, LLC	16.00%	LB 52/230	
George A. DeGarmo, Jr., a divorced man	SWN Production Company, LLC	16.00%	LB 53/569	
Glenn Huff and Terry Huff, husband and wife	SWN Production Company, LLC	16.00%	LB 55/246	
Grace Ingwalsen and Paul Ingwalsen, wife and husband	SWN Production Company, LLC	18.00%	LB 61/608	
Harriet A. O'Neil, a widow	SWN Production Company, LLC	15.00%	LB 53/337	
James DeGarmo, a divorced man	SWN Production Company, LLC	16.00%	LB 53/577	
James Phillis and Marla K. Phillis, husband and wife	SWN Production Company, LLC	16.00%	LB 54/423	
Jeffrey D. Sootin and Gloria Sootin, husband and wife	SWN Production Company, LLC	16.00%	LB 55/201	
Jeffrey Dale Smith, married, dealing in his sole and separate property	SWN Production Company, LLC	16.00%	LB 61/386	

## 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  
Nick Ballato BRK 8H  
Brooke County, West Virginia

		Jeffrey S. Checkan and Carey Checkan, husband and wife	SWN Production Company, LLC	16.00%	LB 55/738
		Jennifer Lynne Arrick and Matthew D. Arrick, wife and husband	SWN Production Company, LLC	16.00%	LB 46/9
		John T. Cook, single	SWN Production Company, LLC	16.00%	LB 45/688
		Joseph R. Rohrig and Catherine Rohrig, husband and wife	SWN Production Company, LLC	15.00%	LB 53/168
		Joseph W. Checkan and Darlene Checkan, husband and wife	SWN Production Company, LLC	16.00%	LB 55/89
		Judith Corrigan, a single woman	SWN Production Company, LLC	16.00%	LB 53/722
		Judy L. Stevens, a widow	SWN Production Company, LLC	16.00%	LB 53/601
17)	4-CC19-191	Kandie Canavan, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	LB 55/639
		Karen DeGarmo, a divorced woman	SWN Production Company, LLC	16.00%	LB 55/460
		Keith Michael Henthorn and Melissa Henthorn, husband and wife	SWN Production Company, LLC	16.00%	LB 53/313
		Kelleen Ann Simmonds and Ross Simmonds, wife and husband	SWN Production Company, LLC	18.00%	LB 61/602
		Kenneth Marsh Murphy, married, dealing in his sole and separate property	SWN Production Company, LLC	18.00%	LB 61/559
		Kent Lane Jones, Sr. and Wanda Jones, husband and wife	SWN Production Company, LLC	16.00%	LB 56/759
		Leonard Coulter and Debra Coulter, husband and wife	SWN Production Company, LLC	16.00%	LB 54/284
		Linda Sypolt, married, dealing in her sole and separate property	SWN Production Company, LLC	18.00%	LB 62/589
		Lisa Cain and Michael Cain, wife and husband	SWN Production Company, LLC	16.00%	LB 55/754
		Lisa Dawn Morris, a single woman	SWN Production Company, LLC	18.00%	LB 55/746
		Lynn Martin f/k/a Lynn Hamilton, single	SWN Production Company, LLC	18.00%	LB 62/446
		Mark W. Hamilton and Cathy Hamilton, husband and wife	SWN Production Company, LLC	18.00%	LB 62/536
		Marshall Henthorn and Jennie Henthorn, husband and wife	SWN Production Company, LLC	15.00%	LB 53/412
		Mary Ann Lerch a/k/a Mary A. Adkins, a widow	SWN Production Company, LLC	16.00%	LB 55/185
		Merl J. Bell and Donna Lee Bell, husband and wife	SWN Production Company, LLC	15.00%	LB 52/246
		Mervin F. Wilson and Doreen A. Wilson, husband and wife	SWN Production Company, LLC	16.00%	LB 45/76
		Michael Corrigan, a married man dealing in his sole and separate property	SWN Production Company, LLC	16.00%	LB 54/17
		Michael Smith, single	SWN Production Company, LLC	16.00%	LB 61/275
		Michelle L. DeGarmo, single	SWN Production Company, LLC	16.00%	LB 46/72
		Nancy Jean Dillon, a widow	SWN Production Company, LLC	15.00%	LB 53/305
		Nancy Rice, married, dealing in her sole and separate property	SWN Production Company, LLC	18.00%	LB 62/512
		Pamela J. West, widowed	SWN Production Company, LLC	16.00%	LB 43/133
		Patricia Ann Nichols and Christopher J. Nichols, wife and husband	SWN Production Company, LLC	16.00%	LB 42/735
		Patricia Barnhart, a divorced woman	SWN Production Company, LLC	16.00%	LB 53/714
		Paul M. Fest and Rebecca G. Fest, husband and wife	SWN Production Company, LLC	16.00%	LB 55/701
		Paula M. Brown, divorced	SWN Production Company, LLC	16.00%	LB 42/728
		Peggy Schilling, widow	SWN Production Company, LLC	16.00%	LB 54/724
		Radiant Life Church	SWN Production Company, LLC	16.00%	LB 55/238
		Ramona E. Orton, a widow	SWN Production Company, LLC	15.00%	LB 53/89
		Raymond Rutan and Kimberly Rutan, husband and wife	SWN Production Company, LLC	16.00%	LB 52/583
		Richard C. Wagner and Carol Wagner, husband and wife	SWN Production Company, LLC	16.00%	LB 55/129
		Richard L. Hildebrand, single	SWN Production Company, LLC	16.00%	LB 62/440
		Richard L. Smith, Jr. and Donna L. Smith, husband and wife	SWN Production Company, LLC	16.00%	LB 44/279
		Richard William Henthorn and Danita Henthorn, husband and wife	SWN Production Company, LLC	15.00%	LB 53/468
		Robert DeGarmo and Stefanie DeGarmo, husband and wife	SWN Production Company, LLC	16.00%	LB 52/782
		Robert Hawk and Barbara Hawk, husband and wife	SWN Production Company, LLC	18.00%	LB 62/363
		Robert L. Hambel, married, dealing in his sole and separate property	SWN Production Company, LLC	18.00%	LB 63/189
		Robert Smith, divorced	SWN Production Company, LLC	16.00%	LB 61/374
		Robert Svoboda and Kimberly Jo Svoboda, husband and wife	SWN Production Company, LLC	15.00%	LB 53/452
		Robert W. Junker and Carol Junker, husband and wife	SWN Production Company, LLC	16.00%	LB 52/567
		Robert Wood and Marcia Wood, husband and wife	SWN Production Company, LLC	16.00%	LB 54/431
		Rodney Green and Melody Elizabeth Hayman Green, husband and wife	SWN Production Company, LLC	15.00%	LB 54/25
		Roger Widner and Rebecca Widner, husband and wife	SWN Production Company, LLC	16.00%	LB 56/174
		Ron E. Michaux and MaryLynn Michaux, husband and wife	SWN Production Company, LLC	16.00%	LB 44/8
		Ronald Powers and Joyce Powers, husband and wife	SWN Production Company, LLC	16.00%	LB 54/399
		Russell DeGarmo, single	SWN Production Company, LLC	16.00%	LB 46/16
		Samuel G. Durr, Sr., a widower	SWN Production Company, LLC	16.00%	LB 54/407
		Sarah Elizabeth Parr, a single woman	SWN Production Company, LLC	15.00%	LB 53/508
		Sheridan Benton, single	SWN Production Company, LLC	18.00%	LB 61/659
		Shirley M. Friese, married, dealing herein with her separate property	SWN Production Company, LLC	18.00%	LB 63/183

		Susan A. Malson and William E. Malson, wife and husband	SWN Production Company, LLC	16.00%	LB 45/398	
		Susan Fodor, a widow	SWN Production Company, LLC	16.00%	LB 52/18	
		Susan Porter, widow	SWN Production Company, LLC	16.00%	LB 54/391	
		Teresa Koski, a divorced woman	SWN Production Company, LLC	16.00%	LB 55/693	
		Thomas E. Smith and Gloria C. Smith, husband and wife	SWN Production Company, LLC	16.00%	LB 45/69	
		Thomas Holloway, a single man	SWN Production Company, LLC	16.00%	LB 55/254	
		Todd Smalley, a single man	SWN Production Company, LLC	16.00%	LB 54/477	
		Tonya R. DeGarmo	SWN Production Company, LLC	16.00%	LB 45/405	
		Vincent Ricci and Jerilyn Sandra Ricci, husband and wife	SWN Production Company, LLC	16.00%	LB 55/121	
		William A. Moyer and Sharon Moyer, husband and wife	SWN Production Company, LLC	16.00%	LB 55/113	
		William E. Henthorn, a single man	SWN Production Company, LLC	15.00%	LB 53/444	
		William Gordon Moyer II and Caroline Susan Moyer, husband and wife	SWN Production Company, LLC	16.00%	LB 54/485	
		William Kiehl and Barbara L. Kiehl, husband and wife	SWN Production Company, LLC	16.00%	LB 54/415	
		SWN Production Company, LLC	Operator Owned		DB 420/451	
		Royalty Owner	UNLEASED	N/A	N/A	1.3889%
		David Greenberg and Ruth Greenberg, husband and wife	SWN Production Company, LLC	16.00%	LB 45/83	
		Samuel Greenberg and Beverly Greenberg	SWN Production Company, LLC	16.00%	LB 44/191	
		Theodore Rudolph and Ethel L. Rudolph, husband and wife	SWN Production Company, LLC	16.00%	LB 44/201	
		Helen M. Greenberg, a widow	SWN Production Company, LLC	18.00%	LB 53/65	
		Judi L. Smithco and Jeffrey Smithco, wife and husband	SWN Production Company, LLC	18.00%	LB 53/208	
		Joshua Krinock and Taylor L. Roberts, husband and wife	SWN Production Company, LLC	18.00%	LB 54/122	
		Stephanie Randell and Richard Randell, wife and husband	SWN Production Company, LLC	18.00%	LB 53/793	
18)	4-C19P-48	Blake Randell, a single man	SWN Production Company, LLC	18.00%	LB 54/1	
		Honore S. Galli & Robert D. Galli, wife and husband	SWN Production Company, LLC	18.00%	LB 54/90	
		Patricia A. Nutz and Michael A. Nutz Jr., wife and husband	SWN Production Company, LLC	18.00%	LB 54/169	
		John Murski and Julie A. Murski, husband and wife	SWN Production Company, LLC	18.00%	LB 54/317	
		Robert J. Greenberg and Laura Greenberg	SWN Production Company, LLC	18.00%	LB 55/97	
		SWN Production Company, LLC	Operator Owned Minerals		DB 397/707	
		SWN Production Company, LLC	Operator Owned Minerals		DB 397/673	
		SWN Production Company, LLC	Operator Owned Minerals		DB 397/690	
		SWN Production Company, LLC	Operator Owned Minerals		DB 411/669	
		SWN Production Company, LLC	Operator Owned Minerals		DB 411/360	
		SWN Production Company, LLC	Operator Owned Minerals		DB 411/363	
19)	4-CC23-51.23	Ridgetop Appalachia, LLC, a Delaware Limited Liability Company	SWN Production Company, LLC	18.00%	LB 61/450	0.0000%
20)	4-CC23-52-	Russell Greathouse and Linda Reeves Greathouse, husband and wife	SWN Production Company, LLC	18.00%	LB 39/52	0.0000%
21)	4-CC23-51.4	J. Russell Greathouse and Linda Reeves Greathouse, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	LB 16/618 LB 30/480	0.0000%
22)	4-CC23-63	Leonard Craig Boyce and Karen Marie Boyce, husband and wife	SWN Production Company, LLC	16.00%	LB 61/227	0.0000%
23)	4-CC23-64	James Frederick Hilt and Mabel Irene Hilt, husband and wife	SWN Production Company, LLC	18.00%	LB 37/238	0.0000%
24)	4-CC23-66	Ronald R. Burda and Deborah J. Burda, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	LB 11/277 LB 30/480	0.0000%
25)	4-CC23-68	Steven R. Miller and Melissa Miller, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	LB 15/529 LB 30/480	0.0000%
26)	4-CC23-69.1	James R. Means and Delia A. Means, husband and wife	SWN Production Company, LLC	16.00%	LB 36/417	0.0000%
27)	4-CC23-70	Victor M. Wigal and Mary L. Rensi	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	LB 14/189 LB 30/480	0.0000%
28)	4-CC23-72	Victor M. Wigal and Mary L. Rensi	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	LB 14/189 LB 30/480	0.0000%
		Niles M. Young, Sr. and Bonnie Young, husband and wife	SWN Production Company, LLC	18.00%	LB 40/422	0.0000%
29)	4-CC23-114	Joseph B. Haught and Lisa A. Haught, husband and wife	SWN Production Company, LLC	18.00%	LB 41/502	
		David W. Haught, Jr. and Jean A. Haught, husband and wife	SWN Production Company, LLC	18.00%	LB 43/4	
		Crystal Hoyt Rogerson, married, dealing in her separate property	SWN Production Company, LLC	18.00%	LB 62/458	
		Niles M. Young, Sr. and Bonnie Young, husband and wife	SWN Production Company, LLC	18.00%	LB 40/422	0.0000%
30)	4-CC23-113	Joseph B. Haught and Lisa A. Haught, husband and wife	SWN Production Company, LLC	18.00%	LB 41/502	
		David W. Haught, Jr. and Jean A. Haught, husband and wife	SWN Production Company, LLC	18.00%	LB 43/4	
		Crystal Hoyt Rogerson, married, dealing in her separate property	SWN Production Company, LLC	18.00%	LB 62/458	
31)	4-CC23-106	James Burns a/k/a James Lee Burns and Sharon Burns a/k/a Sharon Kay Burns, husband and wife	SWN Production Company, LLC	18.00%	LB 52/355	0.0000%
32)	4-CC23-105	James Burns a/k/a James Lee Burns and Sharon Burns a/k/a Sharon Kay Burns, husband and wife	SWN Production Company, LLC	18.00%	LB 52/355	0.0000%
33)	4-CC23-104	Lester G. Taylor, married, dealing in his separate property	SWN Production Company, LLC	18.00%	LB 62/43	0.0000%
34)	4-CC23-103	Lester G. Taylor, married, dealing in his separate property	SWN Production Company, LLC	18.00%	LB 62/37	0.0000%

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  
 Nick Ballato BRK 8H  
 Brooke County, West Virginia

35)	4-CC23-102	Dave R. Carbasho and Stefanie Carbasho, husband and wife	SWN Production Company, LLC	17.00%	LB 39/630	0.0000%
36)	4-CC23-101	Robert Allen Griffith, single	SWN Production Company, LLC	18.00%	LB 61/444	0.0000%
37)	4-CC23-100	Howard Fell, as Executor of the Estate of Howard Clare Fell	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	LB 15/323 LB 30/480	0.0000%
38)	4-CC23-86	Samuel Hubbard, married	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	LB 13/381 LB 30/480	0.0000%
39)	4-CC23-97	Howard F. Fell, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	LB 56/13	0.0000%
40)	4-CC23-96	Howard F. Fell, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	LB 56/13	0.0000%
41)	4-CC23-95	William E. Watson and Mara L. Watson, husband and wife	SWN Production Company, LLC	18.00%	LB 36/119	0.0000%
42)	Rabbit Hill Road	West Virginia Department of Transportation, Division of Highways	SWN Production Company, LLC	20.00%	PENDING	0.0000%
43)	4-CC23-91	Jeffrey R. McDonough and Charlotte D. McDonough, formerly known as Charlotte D. Rothwell, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	LB 28/442 LB 30/480	0.0000%
44)	4-CC23-92	Mark H. Cooper, a single man	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	LB 12/581 LB 30/480	0.0000%
45)	Washington Pike	West Virginia Department of Transportation, Division of Highways	SWN Production Company, LLC	20.00%	PENDING	0.0000%
46)	3-B23R-66	Carmella Rita Bucy, a single woman	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	LB 21/281 LB 30/480	0.0000%
47)	3-B23R-67	Carmella Rita Bucy, a single woman	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	LB 21/281 LB 30/480	0.0000%
48)	3-B23R-73	Carmella Rita Bucy, a single woman	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	LB 21/281 LB 30/480	0.0000%
49)	3-B23R-72	Carmella Rita Bucy, a single woman	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	LB 21/281 LB 30/480	0.0000%
50)	3-B23R-71	Keith Jay Fischer, f/k/a Keith Jay Fish, and Kerri E. Fischer, f/k/a Kerry E. Fish, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	LB 19/192 LB 30/480	0.0000%
51)	3-B28-50	Carmella Rita Bucy, a single woman	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	LB 21/281 LB 30/480	0.0000%
52)	3-B23S-4.2	Virginia H. Hensler a/k/a, Virginia Hope Hensler, a widow and not remarried, appearing herein by and through her Agent and Attorney In Fact William M. Hensler by Power of Attorney dated August 31, 2011 and Recorded in Deed Book 335 at Page, 709 in Brooke County, West Virginia	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	LB 21/528 LB 30/480	0.0000%
53)	3-B28D-5	Brooke County Public Service District	SWN Production Company, LLC	18.00%	LB 56/520	0.0000%
54)	3-B28D-6	Brooke County Public Service District	SWN Production Company, LLC	18.00%	LB 45/335	0.0000%
55)	3-B28D-19	Brooke County Public Service District	SWN Production Company, LLC	18.00%	LB 56/520	0.0000%
56)	3-B28D-36	Brooke County Public Service District	SWN Production Company, LLC	18.00%	LB 56/520	0.0000%
57)	3-B28D-11	Brooke County Public Service District	SWN Production Company, LLC	18.00%	LB 56/520	0.0000%
58)	3-B28D-12	Brooke County Public Service District	SWN Production Company, LLC	18.00%	LB 56/520	0.0000%
59)	3-B28D-13	Brooke County Public Service District	SWN Production Company, LLC	18.00%	LB 56/520	0.0000%
60)	3-B28D-14.1	Wayne E. Hilt and Garnett Hilt, husband and wife	SWN Production Company, LLC	18.00%	LB 42/585	0.0000%
61)	3-B28D-15	Lori K. Trikonos F/K/A Lori K. Wilson, a married woman deaing herein with her separate property	SWN Production Company, LLC	18.00%	LB 47/180	0.0000%
62)	3-B28D-44	Robert F. Folk, married, dealing in his sole and separate property, and Amy Folk, his wife	SWN Production Company, LLC	14.00%	LB 34/28	0.0000%
63)	3-B28D-45	Kurt E. Campbell and Nancy A. Campbell, husband and wife	SWN Production Company, LLC	14.00%	LB 34/33	0.0000%
64)	3-B28-51	Elizabeth Ann Potter, a/k/a Elizabeth A. Potter, a widow	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	LB 17/99 LB 30/480	0.0000%
65)	Pierce Run Hollow Road	West Virginia Department of Transportation, Division of Highways	SWN Production Company, LLC	20.00%	PENDING	0.0000%
66)	3-B28-66	Richard P. Gist, a married man doing business in his sole and separate interest Virginia Gist Abblitt, single Ann Gist Levin, widow	Fortuna Energy Inc. SWN Production Company, LLC Fortuna Energy Inc. SWN Production Company, LLC Fortuna Energy Inc. SWN Production Company, LLC	12.50% 12.50% 12.50%	LB 10/61 LB 30/480 LB 10/67 LB 30/480 LB 10/69 LB 30/480	0.0000%
67)	3-B28-65	Richard P. Gist, a married man doing business in his sole and separate interest Virginia Gist Abblitt, single Ann Gist Levin, widow	Fortuna Energy Inc. SWN Production Company, LLC Fortuna Energy Inc. SWN Production Company, LLC Fortuna Energy Inc. SWN Production Company, LLC	12.50% 12.50% 12.50% 12.50%	LB 10/61 LB 30/480 LB 10/67 LB 30/480 LB 10/69 LB 30/480	0.0000%



SWN Production Company, LLC  
1500 Fort Pierpont Dr, Ste 201  
Morgantown, WV 26508  
Tel: 304 884 1610  
Fax: 304 471 2497  
www.swn.com

April 12, 2023

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

**RE:** SWN's proposed New Well: Nick Ballato BRK 8H in Brooke County, West Virginia, Drilling under St. Johns Run Road, Cross Creek Road, Doman Street, Rabbit Hill Road, Washington Pike, Bonnie Beth Drive, Pierce Run Hollow Road, Bradys Ridge Road, Genteel Ridge Road, and Chesapeake Drive.

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 St. Johns Run Road, Cross Creek Road, Doman Street, Rabbit Hill Road, Washington Pike, Bonnie Beth Drive, Pierce Run Hollow Road, Bradys Ridge Road, Genteel Ridge Road, and Chesapeake Drive. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,

Cooper Farish  
Staff Landman  
SWN Production Company, LLC



The Right People doing the Right Things,  
wisely investing the cash flow from our  
underlying Assets, will create Value+®

05/26/2023

WW-PN  
(11-18-2015)

**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:** Brooke County Review

**Public Notice Date:** March 31, 2023 & April 7, 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:** Nick Ballato BRK 8H

**Address:** 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

**Business Conducted:** Natural gas production.

**Location –**

State: West Virginia

County: Brooke

District: Cross Creek

Quadrangle: Steubenville East

UTM Coordinate NAD83 Northing: 4,462,301

UTM coordinate NAD83 Easting: 536,937

Watershed: Upper Ohio North

**Coordinate Conversion:**

To convert the coordinates above into longitude and latitude, visit: [http://tagis.dep.wv.gov/convert/llutm\\_conus.php](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.

**Reviewing Applications:**

Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> 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 calling the office or by sending an email to [DEP.comments@wv.gov](mailto: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 57<sup>th</sup> 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](http://www.dep.wv.gov/oil_and_gas/pages/default.aspx)

RECEIVED  
Office Of Oil and Gas

APR 18 2023

WV Department of  
Environmental Protection

05/26/2023

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

Date of Notice Certification: 4/17

API No. 47- 009 -  
Operator's Well No. Nick Ballato BRK 8H  
Well Pad Name: Nick Ballato BRK

**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:

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>536,936.93</u>
County: <u>009- Brooke</u>		Northing: <u>4,462,300.74</u>
District: <u>Cross Creek</u>	Public Road Access: <u>St. Johns Run Road</u>	
Quadrangle: <u>Steubenville East</u>	Generally used farm name: <u>Nick Ballato BRK</u>	
Watershed: <u>Upper Ohio North</u>		

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		<b>OOG OFFICE USE ONLY</b>
<input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED		<input type="checkbox"/> RECEIVED/ NOT REQUIRED
<input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED		<input type="checkbox"/> RECEIVED
<input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or  <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)		<input type="checkbox"/> RECEIVED/ NOT REQUIRED
<input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION		<input type="checkbox"/> RECEIVED
<input checked="" type="checkbox"/> 5. PUBLIC NOTICE		<input type="checkbox"/> RECEIVED
<input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		<input type="checkbox"/> RECEIVED

**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.

05/26/2023

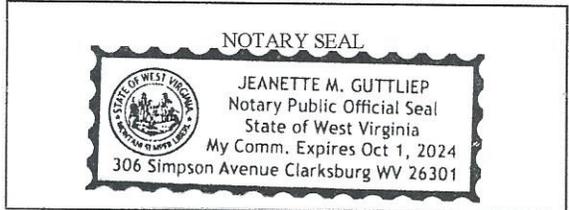
**Certification of Notice is hereby given:**

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  
By: Brittany Woody  
Its: Senior Regulatory Analyst  
Telephone: 304-884-1610

*Brittany Woody*

Address: 1300 Fort Pierpont Dr., Suite 201  
Morgantown, WV 26508  
Facsimile: 304-884-1690  
Email: Brittany\_Woody@swn.com



Subscribed and sworn before me this 13 day of September, 2022  
Jeanette M. Guttliet Notary Public  
My Commission Expires 10/01/2024

**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 of your personal information, please contact DEP's Chief Privacy Officer at [deprivacyofficer@wv.gov](mailto:deprivacyofficer@wv.gov).

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:** 4/17 **Date Permit Application Filed:** 4/17

**Notice of:**

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

**Delivery method pursuant to West Virginia Code § 22-6A-10(b)**

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A 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)

Name: Nick Ballato

Address: 556 Rear Rockdale Road

Follansbee, WV 26037

Name: Christopher Ballato

Address: 43 Richie Dr

Wellsburg, WV 26070

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

SURFACE OWNER(s) (Impoundments or Pits)

Name: \_\_\_\_\_

Address: \_\_\_\_\_

COAL OWNER OR LESSEE

Name: Nicholas Ballato, Christopher & Ruth Ballato

Address: 556 Rear Rockdale Road

Follansbee, WV 26037

COAL OPERATOR

Name: \_\_\_\_\_

Address: \_\_\_\_\_

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: See Attachment 13

Address: \_\_\_\_\_

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\*Please attach additional forms if necessary

**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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**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

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.

**Written Comment:**

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 57<sup>th</sup> 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.**

**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-Permits/Pages/default.aspx> 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)

4700900334  
API NO. 47-009 -  
OPERATOR WELL NO. Nick Ballato BRK 8H  
Well Pad Name: Nick Ballato BRK

**Notice is hereby given by:**

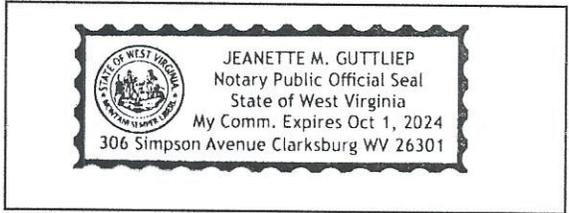
Well Operator: SWN Production Co., LLC  
Telephone: 304-884-1610  
Email: Brittany\_Woody@swn.com

*Brittany Woody*

Address: 1300 Fort Pierpont Dr., Suite 201  
Morgantown, WV 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 [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).



Subscribed and sworn before me this \_\_\_\_\_ day of September 2022  
Jeanette M. Guttliop Notary Public  
My Commission Expires 10/01/24

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:** 8/18/222      **Date of Planned Entry:** 8/25/2022

**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:**

SURFACE OWNER(S)

COAL OWNER OR LESSEE

Name: Nick Ballato  
 Address: 556 Rear Rockdale Road  
Follansbee, WV 26037  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_

Name: Nicholas Jay Ballato, Christopher A. & Ruth V. Ballato  
 Address: 556 Rear Rockdale Road  
Follansbee, WV 26037  
 MINERAL OWNER(S)  
 Name: Nick Ballato  
 Address: 556 Rear Rockdale Road  
Follansbee, WV 26037  
 \*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: <u>WV</u>	Approx. Latitude & Longitude: <u>40.310273, -80.565406</u>
County: <u>Brooke</u>	Public Road Access: <u>St. Johns Road</u>
District: <u>Cross Creek</u>	Watershed: <u>Upper Ohio South</u>
Quadrangle: <u>Steubenville East</u>	Generally used farm name: <u>Nick Ballato BRK</u>

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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

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

**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. We need 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](mailto:depprivacyofficer@wv.gov).

RECEIVED  
 Office of Oil and Gas  
 APR 18 2023  
 WV Department of Environmental Protection  
 03/26/2023

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:** 8/18/222      **Date of Planned Entry:** 8/25/2022

**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:**

SURFACE OWNER(s)

Name: Christopher Ballato  
 Address: 43 Richie Drive  
Wellsburg, WV 26070  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_

COAL OWNER OR LESSEE

Name: Nicholas Jay Ballato, Christopher A. & Ruth V. Ballato  
 Address: 556 Rear Rockdale Road  
Follansbee, WV 26037

MINERAL OWNER(s)

Name: Christopher Ballato  
 Address: 43 Richie Drive  
Wellsburg, WV 26070

\*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: <u>WV</u>	Approx. Latitude & Longitude: <u>40.310273, -80.565406</u>
County: <u>Brooke</u>	Public Road Access: <u>St. Johns Road</u>
District: <u>Cross Creek</u>	Watershed: <u>Upper Ohio South</u>
Quadrangle: <u>Steubenville East</u>	Generally used farm name: <u>Nick Ballato BRK</u>

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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

**Notice is hereby given by:**

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

**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](mailto:depprivacyofficer@wv.gov).

05/26/2023

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
**NOTICE OF INTENT TO DRILL**

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:** 03/27/2023 **Date Permit Application Filed:** 4/11

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

HAND DELIVERY  CERTIFIED MAIL 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: Nick Ballato  
Address: 556 Rear Rockdale Rd.  
Follansbee, WV 26037

Name: Christopher Ballato  
Address: 43 Richie Dr.  
Wellsburg, WV 26070

**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 UTM NAD 83 Easting: 536,936.93  
County: Brooke Northing: 4,462,300.74  
District: Cross Creek Public Road Access: St. Johns Run Road  
Quadrangle: Steubenville East, OH Generally used farm name: Nick Ballato BRK  
Watershed: Upper Ohio North

**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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://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 Drive, Suite 201  
Morgantown, WV 26508  
Telephone: 304-231-8329  
Email: reid\_croft@swn.com  
Facsimile:

Authorized Representative: Reid Croft  
Address: 1300 Fort Pierpont Drive, Suite 201  
Morgantown, WV 26508  
Telephone: 304-231-8329  
Email: reid\_croft@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](mailto:depprivacyofficer@wv.gov).

05/26/2023





WEST VIRGINIA DEPARTMENT OF TRANSPORTATION  
**Division of Highways**

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

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

D. Alan Reed, P.E.  
State Highway Engineer

September 1, 2022

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

Subject: DOH Permit for the Nick Ballato Pad, Brooke County  
Nick Ballato 8H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2011-0112 which has been issued to Southwestern Energy for access to the State Road for a well site located off Brooke County Route 14 SLS MP 0.53.

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 October 1, 2018. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

A handwritten signature in blue ink that reads "Gary K. Clayton".

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

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

Product Name	Product Use	Chemical Name	CAS Number
AI-303 (U.S. Well Services)	Mixture	Ethylene glycol	107-21-1
		Cinnamaldehyde	104-55-2
		Butyl cellosolve	111-76-2
		Formic acid	64-18-6
		Polyether	Proprietary
		Acetophenone, thiourea, formaldehyde polymer	68527-49-1
AP ONE (U.S. Well Services)	Breaker	Ammonium persulfate	7727-54-0
Bactron K-139 (Champion Technologies)	Biocide	Glutaraldehyde	111-30-8
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
Bactron K-219 (Champion Technologies)	Biocide	Methanol	67-56-1
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
CarboNRT	Tracer	Ceramic Proppant	66402-68-4
EC6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate	Proprietary
		Ethylene Glycol	107-21-1
EC6734A (Champion Technologies)	Biocide	Hydrogen Peroxide	7722-84-1
		Acetic Acid	64-19-7
		Peroxyacetic Acid	79-21-0
Econo-CI200 (SWN Well Services)	Corrosion Inhibitor	Methanol	67-56-1
		Oxyalkylated fatty acid	68951-67-7
		Fatty acids	61790-12-3
		Modified thiourea polymer	68527-49-1
		Water	7732-18-5
		Hydrochloric acid	7647-01-0
		Potassium acetate	127-08-2
		Formaldehyde	50-00-0
Ecopol-FEAC (SWN Well Services)	Iron Control	Acetic Acid	64-19-7
		Citric Acid	77-92-9
		Water	7732-18-5
FDP-S1176-15 (Halliburton)	Friction Reducer	Polyacrylate	Proprietary
		Hydrotreated light petroleum distillate	64742-47-8
FLOJET DR900 LPP (SWN Well Services)	Friction Reducer	Distillates (petroleum) hydrotreated light	64674-47-8
		Ethylene Glycol	107-21-1
		Alcohols, C12-16, Exoxylated propoxylated	68213-24-1
		Fatty Alcohols ethoxylated	Proprietary
		Water	7732-18-5
FLOJET DRP 1130X (SWN Well Services)	Friction Reducer	Proprietary	Proprietary
FR-76 (Halliburton)	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
		Inorganic Salt	Proprietary
GYPTRON T-390 (Champion Technologies)	Scale Inhibitor	Methanol	67-56-1
		Nonylphenol Ethoxylate	Proprietary
HAI-150E (Halliburton)	Corrosion Inhibitor	No hazardous substance	N/A
HCL (SWN Well Services)	Hydrochloric Acid	Hydrochloric Acid	7647-01-0
		Water	7732-18-5
LP-65 MC (Halliburton)	Scale Inhibitor	Organic phosphonate	Proprietary
		Ammonium Chloride	12125-02-9
OPTI-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	64742-47-8
Plexslick 930	Friction Reducer	Copolymer of 2-propenamide	Proprietary
		Hydrotreated Distillate	64742-47-8
		Sodium Chloride	7647-14-5
		Alcohols, C12-16, Exoxylated	68551-12-2
		Oleic Acid Diethanolamide	93-83-4
		Ammonium Chloride	12125-02-9
Plexslick 953	Friction Reducer	Petroleum Distillate	64742-47-8
		Sodium Chloride	7647-14-5
		Ammonium Chloride	12125-02-9
		N,N-bis (2-hydroxyethyl) oleamide	93-83-4
Plexslick 957	Friction Reducer	Petroleum Distillate	64742-47-8
		Ammonium Chloride	12125-02-9
		Oleic Acid Diethanolamide	93-83-4
		Alcohols, C12-16, Exoxylated	68551-12-2
		Water	7732-15-5
Plexslick 996	no data available	Copolymer of 2-Propeenamide	*****
		Distillates (petroleum), hydrotreated light	64742-47-8
		Alcohol Ethoxylate	*****
		Surfactant	*****
WFRA-2000 (U.S. Well Services)	Anionic Friction Reducer	Hydrotreated light distillate (petroleum)	64742-47-8
		Propenoic acid, polymer with propenamide	9003-06-9
Plexaid 655 NM	Scale inhibitor	Diethylenetriamine penta (methylene phosphonic acid)	15827-30-8
Plexslick 922	no data available	Copolymer of 2-propenamide	69418-26-4
		Distillates (petroleum), hydrotreated light	64742-47-8
		Ammonium chloride ((NH4)Cl)	12125-02-9
		Oleic Acid Diethanolamide	93-83-4
Tolcide 4Frac	Mixture	Phosphonium, tetrakis (hydroxymethyl), Sulfate	55566-30-8
		Quaternary ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
		Tetrakis (hydroxymethyl) phosphonium sulphate	55566-30-8
LD-2950	Friction Reducer	Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups	397256-50-7
		Hydrotreated light petroleum distillate	64742-47-8
		Ethoxylated alcohol	Proprietary
Legend LD-7750W	Scale Control	Poly (oxy-1,2-ethanediyl) alpha.-tridecyl-.omega.-hydroxy-, branched	69011-36-5
		Methanol	67-56-1
MC MX 8-4743	Specialty Product	Phosphonic Acid Salt	Proprietary
		Sodium Nitrate	7631-89-4

OPERATOR: SWN Production Co., LLC

WELL NO: Nick Ballato BRK 8H

PAD NAME: Nick Ballato BRK

REVIEWED BY: \_\_\_\_\_

SIGNATURE: *Brittany Woody*

### WELL RESTRICTIONS CHECKLIST

#### HORIZONTAL 6A WELL

*\*Pad Built 8/3/11*

#### Well Restrictions

- At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR
  - DEP Waiver and Permit Conditions
- At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR
  - DEP Waiver and Permit Conditions
- At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR
  - DEP Waiver and Permit Conditions
- At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR
  - Surface Owner Waiver and Recorded with County Clerk, OR
  - DEP Variance and Permit Conditions
- At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR
  - Surface Owner Waiver and Recorded with County Clerk, OR
  - DEP Variance and Permit Conditions
- At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR
  - Surface Owner Waiver and Recorded with County Clerk, OR
  - DEP Variance and Permit Conditions