



west virginia department of environmental protection

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

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

Monday, October 4, 2021
WELL WORK PERMIT
Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC
POST OFFICE BOX 12359
SPRING, TX 773914954

Re: Permit approval for SWN A WTZ 401H
47-103-03453-00-00

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: SWN A WTZ 401H
Farm Name: SWN PRODUCTION COMPANY
U.S. WELL NUMBER: 47-103-03453-00-00
Horizontal 6A New Drill
Date Issued: 10/4/2021

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.

CONDITIONS

1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. 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.

API Number: _____

PERMIT CONDITIONS

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.

10/08/2021

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 103-Wetzel 7-Proctor 681-Wileyville ✓
Operator ID County District Quadrangle

2) Operator's Well Number: SWN A WTZ 401H ✓ Well Pad Name: SWN A WTZ Pad ✓

3) Farm Name/Surface Owner: SWN Production Company, LLC ✓ Public Road Access: Macedonia Ridge Road

4) Elevation, current ground: 1343' Elevation, proposed post-construction: 1343' ✓

5) Well Type (a) Gas Oil _____ Underground Storage RECEIVED
Other _____ Office of Oil and Gas
(b) If Gas Shallow Deep _____
Horizontal AUG 30 2021

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target Formation- Marcellus, Up-Dip well to the North, Target Top TVD- 7354', Target Base TVD- 7399', Anticipated Thickness- 45', Associated Pressure- 4809

8) Proposed Total Vertical Depth: 7383'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 17,135' ✓

11) Proposed Horizontal Leg Length: 8710.80' ✓

12) Approximate Fresh Water Strata Depths: 307' ✓

13) Method to Determine Fresh Water Depths: Salinity Calculations from SWN A WTZ 3H logs (API 47-103-03232)

14) Approximate Saltwater Depths: 1342' Logs will be run for a salinity profile analysis

15) Approximate Coal Seam Depths: 1246' ✓

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: _____

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#	126'	126' ✓	CTS ✓
Fresh Water	13 3/8"	New	H-40	48#	380'	380' ✓	380 sx/CTS ✓
Coal	See	Interm	Casing				
Intermediate	9 5/8"	New	J/K-55	36/40#	2888'	2888' ✓	1011 sx/CTS ✓
Production	5 1/2"	New	P-110 HP	20#	17135'	17135' ✓	Tail 2941sx/ 100 inside intermediate ✓
Tubing							
Liners							

Bryan Harris
5-3-21

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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	See	Interm	Casing				
Intermediate	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/40% Excess
Production	5 1/2"	8 3/4"-8 1/2"	0.361	14360 ✓	10500 ✓	Class A	1.19/5% Excess
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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

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

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

Well will be perforated within the target formation and stimulated with a slurry of water, sand, and chemical additives at a high rate. This will be performed in stages with the plug and perf method along the wellbore until the entire lateral has been stimulated within the target formation. All stage plugs are then drilled out and the well is flowed back to surface. In some instances, additional toe prep may be performed by pumping additional water in the toe of the well prior to perforating and pumping Stage 1 to ensure that the toe guns/toe sleeves are fully open prior to pumping stage 1. The well is produced through surface facilities consisting of high pressure production units, horizontal separation units, water and oil storage tanks. Max press and anticipated max rate- 9000 lbs @ 100 barrels a minute.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 12.77

22) Area to be disturbed for well pad only, less access road (acres): 6.61

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.

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

See Attachment ***

25) Proposed borehole conditioning procedures:

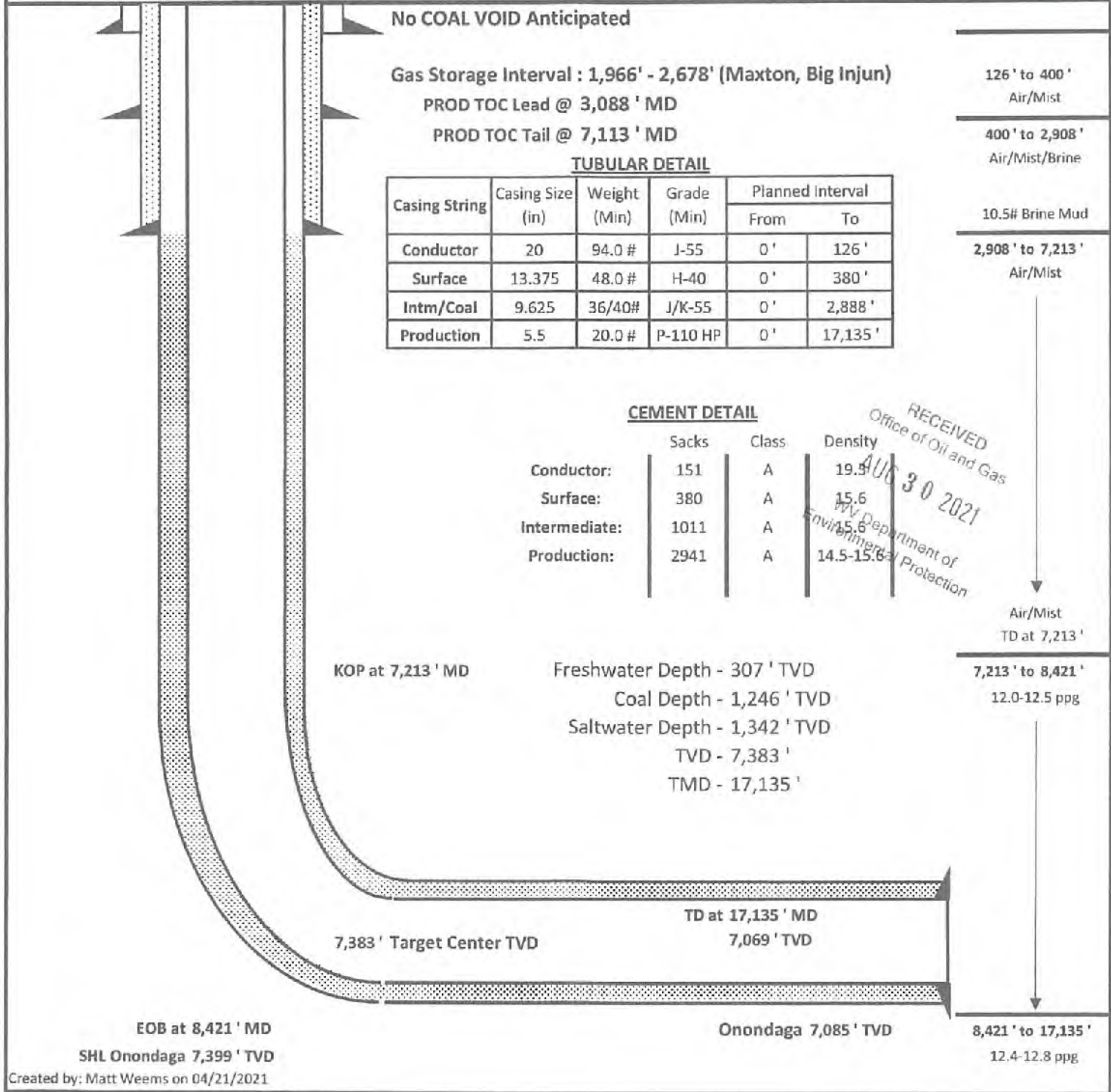
All boreholes will be conditioned with circulation and rotation for a minimum of one bottoms up and continuing until operator is satisfied with borehole conditions.

*Note: Attach additional sheets as needed.

CEMENT ADDITIVES

INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE (FRESHWATER) up to 3%	XXXXXXXXXX	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION up to 3%	XXXXXXXXXX	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
INTERMEDIATE	D020	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D047	FP 28L	XXXXXXXXXX	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	XXXXXXXXXX	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	CemNet	XXXXXXXXXX	XXXXXXXXXX	LOST CIRC MATERIAL	COATED FIBERGLASS FIBERS	PROPRIETARY
	SUGAR	SUGAR	CJ795	CMT RETARDER	SUCROSE	57-50-1
	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
PRODUCTION	XXXXXXXXXX	XXXXXXXXXX	CJ111	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
	XXXXXXXXXX	SS-11W	CJ880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	D047	FP 28L	XXXXXXXXXX	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	XXXXXXXXXX	XXXXXXXXXX	CJX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
	XXXXXXXXXX	XXXXXXXXXX	CJ540	HP FLUID LOSS ADDITIVE	ALIPHATIC AMIDE POLYMER	PROPRIETARY
	D255	XXXXXXXXXX	XXXXXXXXXX	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETARY
	XXXXXXXXXX	XXXXXXXXXX	CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
	XXXXXXXXXX	FL-66	CJ501	LOW TEMP FLUID LOSS ADD	POWDERED POLYSACCHARIDE	PROPRIETARY
	XXXXXXXXXX	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	XXXXXXXXXX	VISCOSIFIER/ANTI- SETTLING AGENT	REFINED POLYMER/ CHRYSTALLINE SILICA	PROPRIETARY
	D198	R-3		CEMENT RETARDER	LIGNIN	8068-51-6
	SUGAR	SUGAR	CJ795	CEMENT RETARDER	SUCROSE	57-50-1

Southwestern Energy Company		Proposed Drilling Program	
Well:	SWN A WTZ 401	Re-entry Rig:	TBD
Field:	VICTORY FIELD WET	Prospect:	Marcellus Shale
County:	WETZEL	State:	WV
SHL:	39.6826 Latitude	-80.6397 Longitude	
BHL:	39.6928 Latitude	-80.6707 Longitude	
KB Elev:	1,369 ft MSL	KB: 26 ft AGL	GL Elev: 1,343 ft MSL



Created by: Matt Weems on 04/21/2021

WW-9
(4/16)

API Number 47 - 103 - 63453
Operator's Well No. SWN A WTZ 401H

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 South Quadrangle Wileyville

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.

-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,

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*

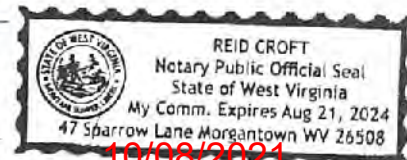
Company Official (Typed Name) Brittany Woody

Company Official Title Senior Regulatory Analyst

Subscribed and sworn before me this 5th day of April, 20 21

Reid Croft Notary Public

My commission expires 8/21/2024



Attachment 3A

CLOSED LOOP SYSTEM

The closed loop system is designed to eliminate the use of reserve pits by providing a higher level of solids control processing and using steel pits for capture of drill cuttings. The cuttings are then processed to achieve landfill requirements before hauling to approved landfills. The liquids are processed to recycle into the active mud system or to transfer to onsite temporary storage as needed.

The closed loop system consists of several sets of a shale gas separator (often called a 'methana'), several banks of solids shakers, high speed centrifuges (1 or 2) used to process the fluid portion of the mud system to remove low gravity solids, low speed centrifuge used for barite recovery in high weight liquid drilling systems, a dewatering system (for air intervals and if freshwater mud systems are in use) used to further clean liquids by flocculation and additional mechanical separation, associated open top tanks for processing liquids and capturing solids for disposal, and transfer pumps to move fluids through the processes. There is an area adjacent to the cuttings tanks (Red Zone) where a track hole is utilized to recover the processed cuttings for loading into containers for hauloff. (See attached schematic of a generic closed loop system layout)

Below are discussions of the processes used when drilling the air interval or liquids interval.

AIR DRILLING INTERVALS

During air drilling operations, flow from the rig will pass down the flowline to the Shale Gas Separator (sometimes called a methane) where gas and liquids/solids are separated. Gas is sent to the flare scrubber tank and is flared at the flare stack. Solids and fluids pass across a shaker system to separate solids from liquids. Solids pass into the cuttings tanks where they are captured for drying and hauloff to an approved landfill site. Liquids fall into a shaker tank and are collected by a centrifugal pump to be processed by the high speed centrifuge to further separate liquids and solids. Solids are then dumped into the cuttings tank for drying and hauloff. Liquids are further processed to remove additional low gravity solids before being reused or transferred to onsite storage.

LIQUIDS DRILLING (FRESHWATER, BRINE, SOBM)

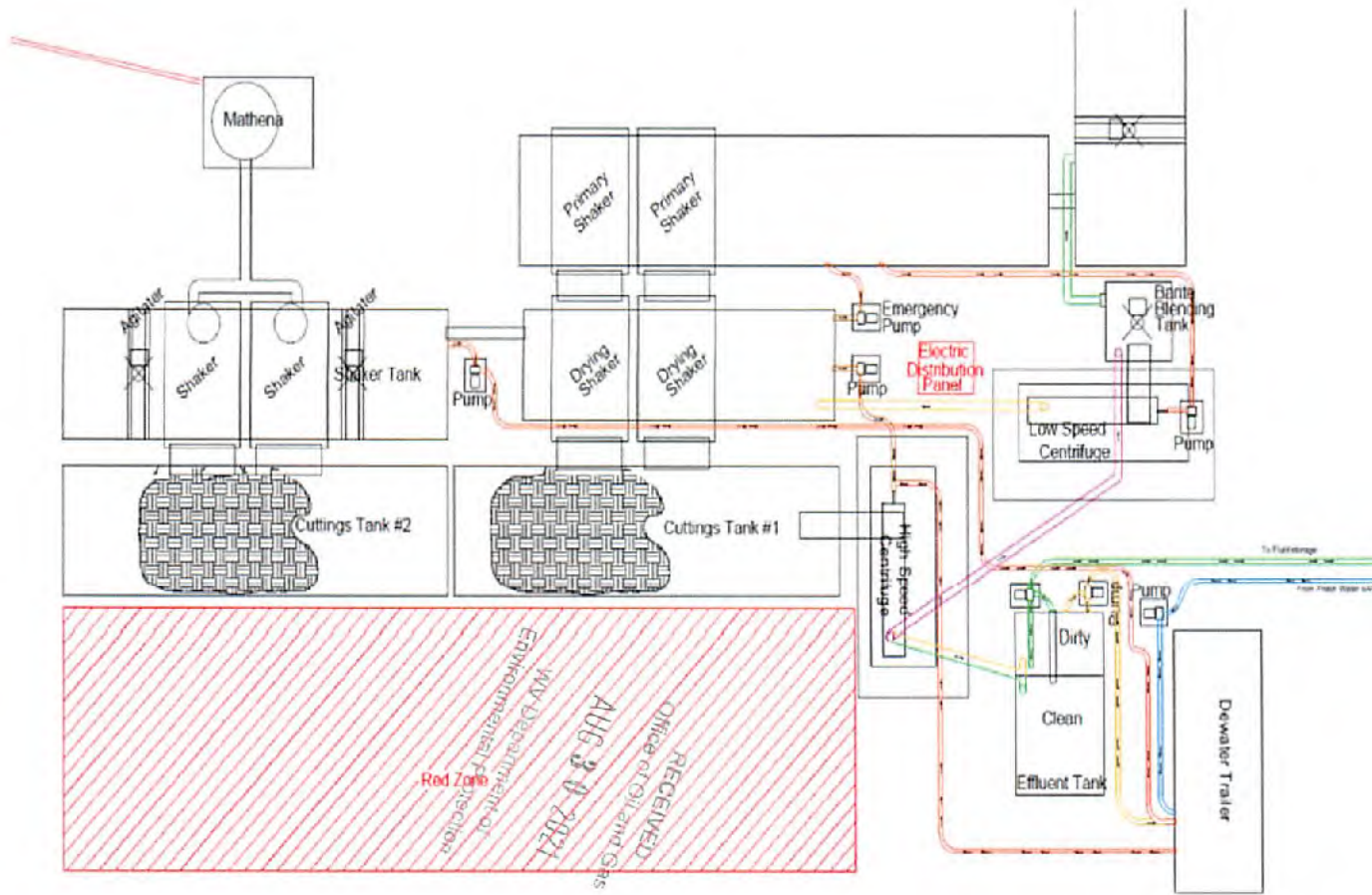
When drilling is converted to liquids drilling, the shale gas separator and associated shaker tank are bypassed, and the liquids system is processed over the primary and drying shaker systems. Cuttings drop into the cuttings tank for additional processing. Any recoverable associated liquids attached to the cutting are recovered out the tank and processed through the low gravity (high speed) and barite recovery centrifuges (low speed) to further remove low gravity solids and to recover barite for reuse in the mud systems.

10/08/2021

Solids Control Layout



EXAMPLE SCHEMATIC FOR CLOSED LOOP SOLIDS CONTROL SYSTEM



Attachment 3B

Drilling Mediums

Surface/Coal(if present)/Freshwater Intervals:

Air

Freshwater (if needed based on conditions)

Intermediate/Coal (if present):

Air

Production Hole:

Air

Synthetic Oil (Base Fluid for mud system)

Barite

Calcium Chloride

Lime

Organophilic Bentonite

Primary and Secondary Emulsifiers

Gilsonite

Calcium Carbonate

Friction Reducers

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SWN Production Co., LLC

Proposed Revegetation Treatment: Acres Disturbed 12.77 Prevegetation pH _____

Lime as determined by pH test min 2 Tons/acre or to correct to pH 6.61

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 3C

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre

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: Bryan Hason

Comments: _____

Title: Oil & Gas Inspector

Date: 5-3-21

Field Reviewed? () Yes () No

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WVD Seeding Specification

$\frac{R^+}{A} \rightarrow V^+$

To Order Seed contact Lyndsi Eddy Flippo office 570-996-4271 cell 501-269-5451 lyndsi_eddy@swn.com (please allow 7 to 10 days for delivery)

NON-ORGANIC PROPERTIES	
Seed Mixture: ROW Mix	SWN Supplied
Orchardgrass	40%
Timothy	15%
Annual Ryegrass	15%
Brown Top Millet	5%
Red Top	5%
Medium Red Clover	5%
White Clover	5%
Birdsfoot Trefoil	5%
Rough Bluegrass	5%
All legumes are inoculated at 5x normal rate	
Apply @ 100lbs per acre April 16th- Oct. 14th	
Apply @ 200lbs per acre Oct. 15th- April 15th PLUS 50lbs per acre of Winter Wheat	

SOIL AMENDMENTS	
10-20-20 Fertilizer	*Apply @ 500lbs per Acre
Pelletized Lime	Apply @ 2 Tons per Acre
*unless otherwise dictated by soil test results	

Seeding Calculation Information:
1452' of 30' ROW/LOD is One Acre
871' of 50' ROW/LOD is One Acre
622' of 70' ROW/LOD is One Acre

Synopsis:
Every 622 linear feet in a 70' ROW/LOD, you should be using (2) 50lb bags of seed, (4) 50lb bags of fertilizer and (80) 50lb bags of Lime (2x seed in winter months + 50lb Winter Wheat/ac).

Special Considerations:
Landowner Special Considerations including CREP program participants require additional guidance that is not given here. Discuss these requirements with SWN supervision at the beginning of the project to allow time for special seed delivery.

ORGANIC PROPERTIES	
Seed Mixture: SWN Production Organic Mix	SWN Supplied
Organic Timothy	50%
Organic Red or White Clover	50%
OR	
Organic Perennial Ryegrass	50%
Organic Red or White Clover	50%
Apply @ 100lbs per acre April 16th- Oct. 14th	
Apply @ 200lbs per acre Oct. 15th- April 15th	
Organic Fertilizer @ 200lbs per Acre	Pelletized Lime @ 2 Tons per Acre

WETLANDS (delineated as jurisdictional wetlands)	
Seed Mixture: Wetland Mix	SWN Supplied
VA Wild Ryegrass	20%
Annual Ryegrass	20%
Fowl Bluegrass	20%
Cosmos 'Sensation'	10%
Redtop	5%
Golden Tickseed	5%
Maryland Senna	5%
Showy Tickseed	5%
Fox Sedge	2.5%
Soft Rush	2.5%
Woolgrass	2.5%
Swamp Verbena	2.5%
Apply @ 25lbs per acre April 16th- Oct. 14th	
Apply @ 50lbs per acre Oct. 15th- April 15th	
NO FERTILIZER OR LIME INSIDE WETLAND LIMITS	

471030 3453

SWN A WTZ 401H

API	Operator	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones Not Perforated
Unknown	Unknown		39.683414	80.640257			
103-01485	Perkins Oil & Gas, Inc	Active	39.682609	80.640643			
103-00404	The Manufacturers Light & Heat Company	Plugged	39.684535	80.652068	1832	Maxon Sand	Pittsburgh Coal
103-03253	SWN Production Company	Active	39.682664	80.639579	25972	Marcellus	Tully Lime
103-03251	SWN Production Company	Active	39.682639	80.639593	25776	Marcellus	Tully Lime
103-03233	SWN Production Company	Active	39.682614	80.639608	2117	Marcellus	Tully Lime
103-03232	SWN Production Company	Active	39.682589	80.639622	18878	Marcellus	Tully Lime

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MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN



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

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Bryan Harris
5-3-21

API NO. 47-XXX-XXXXX
WELL NAME: SWN A WTZ 401H
Wileyville QUAD
PROCTOR DISTRICT
WETZEL COUNTY, WEST VIRGINIA

Submitted by:

Name: Brittany Woody

Date: 4/5/2021

Brittany Woody

Title: Senior Regulatory Analyst

SWN Production Co., LLC

Approved by:

Name: WVDEP

Date: 10/1/21

Title: Permit Staff

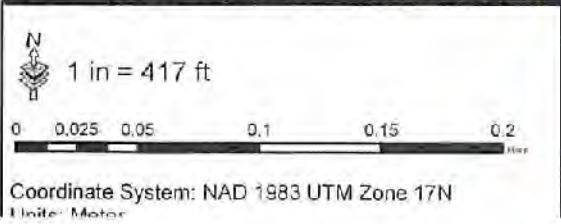
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Approved by:

Name: _____

Date: _____

Title: _____



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WV Department of Environmental Protection

- P Pond
- S Spring
- W Water Well
- 1500' Buffer

Water Purveyor Map
Well Pad: SWN A
County: WTZ

SWN 10/08/2021 ²¹ _{TV}

Southwestern Energy

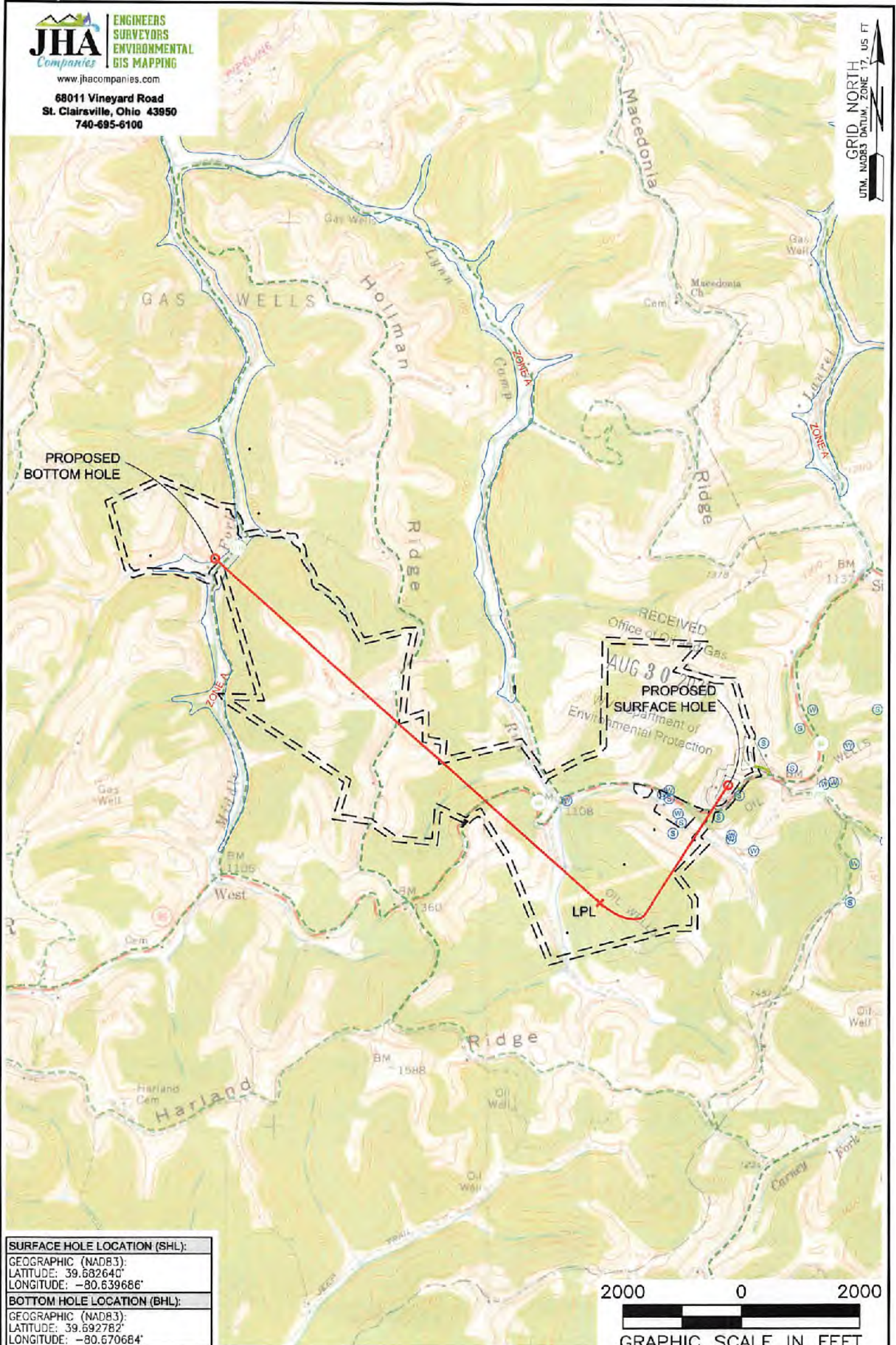
Date: 4/24/2018 | Author: willish



**ENGINEERS
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ENVIRONMENTAL
GIS MAPPING**
www.jhacompanies.com

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

GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT



SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 39.682640°
LONGITUDE: -80.639686°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 39.692782°
LONGITUDE: -80.670684°

NOTES ON SURVEY

1. 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.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
3. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- LPL* LANDING POINT LOCATION
- FLOOD PLAN
- ACCESS ROAD
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH



10/08/2021

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: SWN A WTZ	WELL # 401H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN, WV 26508	COUNTY: WETZEL	CODE: 103	DISTRICT: PROCTOR
SURFACE OWNER: SWN PRODUCTION COMPANY, LLC	USGS 7 1/2 QUADRANGLE MAP NAME: WILEYVILLE, WV		

LATITUDE: 39°42'30" SURFACE HOLE (2000' SCALE)

4133'

LATITUDE: 39°42'30" BOTTOM HOLE (2000' SCALE)

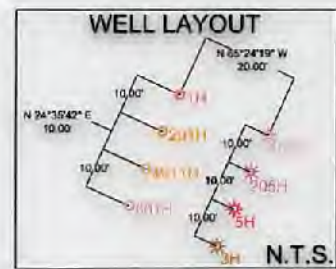
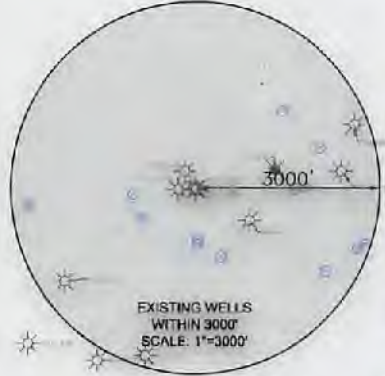
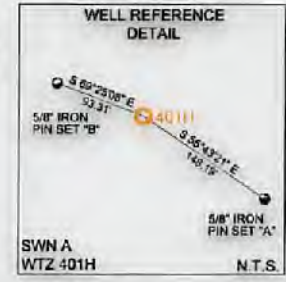
1139'



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

NOTES ON SURVEY

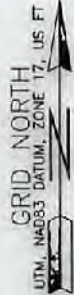
1. COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
3. THIS PLAT DOES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



LINE	BEARING	DISTANCE
L1	S71°03'49\"W	1319.44'
L2	S46°38'13\"W	653.67'



SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4392596.42 EASTING: 530898.27
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4391983.56 EASTING: 530250.37
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4393711.74 EASTING: 528235.91



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. 2041

COMPANY: **SWN** Production Company, LLC

	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	MINIMUM DEGREE OF ACCURACY: 1/200	SWN A WTZ 401H
	WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	PROVEN SURVEY SOURCE OF ELEVATION: (NAVD 88, US FT)	OPERATOR'S WELL #: 401H API WELL #: 47 STATE 103 COUNTY 03453 HCA PERMIT

WELL TYPE: OIL	WASTE DISPOSAL	PRODUCTION <input checked="" type="checkbox"/>	DEEP	GAS <input checked="" type="checkbox"/>	LIQUID INJECTION	STORAGE	SHALLOW <input checked="" type="checkbox"/>
WATERSHED: UPPER OHIO SOUTH				ELEVATION: 1343.2'			
DISTRICT: PROCTOR		COUNTY: WETZEL		QUADRANGLE: WILEYVILLE, WV			
SURFACE OWNER: SWN PRODUCTION COMPANY, LLC				ACREAGE: ±128.24			
OIL & GAS ROYALTY OWNER: RODNEY CALVERT, ET AL				ACREAGE: ±128.24			
DRILL <input checked="" type="checkbox"/>	DRILL DEEPER	REDRILL	FRACTURE OR STIMULATE <input checked="" type="checkbox"/>	PLUG OFF OLD FORMATION	PERFORATE NEW FORMATION		
CONVERT	PLUG & ABANDON	CLEAN OUT & REPLUG	OTHER CHANGE (SPECIFY)				
TARGET FORMATION: MARCELLUS				ESTIMATED DEPTH: 7,383' TVD 17,135' 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

LEGEND: PROPOSED SURFACE HOLE / BOTTOM HOLE EXISTING / PRODUCING WELLHEAD LPL* LANDING POINT LOCATION EXISTING WATER WELL EXISTING SPRING NATURAL WATERWAY SURVEYED BOUNDARY LEASE BOUNDARY PROPOSED PATH PUBLIC ROAD	REVISIONS: DATE: 03-23-2021 API NO: 47-103-XXXX DRAWN BY: R. GRIMES SCALE: 1" = 2000' DRAWING NO: 2016-519 WELL LOCATION PLAT
--	--

LONGITUDE: 80°40'00" BOTTOM HOLE (2000' SCALE)
 LONGITUDE: 80°37'30" SURFACE HOLE (2000' SCALE)

WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	SWN PRODUCTION COMPANY LLC (S) RODNEY CALVERT, ET AL (R)	12-10-29
TRACT	SURFACE OWNER	TAX PARCEL
2	CALVERT RODNEY A	12-10-29.3
3	DREYER JOSEPH C	12-15-8
4	HAESSLY LAND AND TIMBER LLC	12-15-7
5	HAESSLY LAND AND TIMBER LLC	12-15-6
6	HAESSLY LAND AND TIMBER LLC	12-10-33
7	HAESSLY HARDWOOD LUMBER CO	12-10-32
8	STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS	PROCTOR CREEK ROAD (COUNTY HIGHWAY 89)
9	HUGGINS JOSEPH DEAN	12-10-31
10	HUGGINS JOSEPH DEAN	12-10-25
11	RITCHEA ROBERT C & JAMES L	12-10-24
12	HAESSLY HARDWOOD LUMBER CO	12-10-23
13	HAESSLY LAND AND TIMBER LLC	12-10-20
14	HUGGINS MICHAEL A & PATRICK W	12-9-23
15	GODDARD WAYNE L	12-9-22

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	YOHO NORMA F	1-7-40
B	SWN PRODUCTION COMPANY	12-10-29.2
C	CALVERT RODNEY A	12-10-29.5
D	HUTCHISON MARGARET A	12-15-9
E	HAESSLY LAND AND TIMBER LLC	12-15-10
F	LEMASTERS DOLLY G EST	12-15-19
G	HAESSLY LAND AND TIMBER LLC	12-15-5
H	HAESSLY LAND AND TIMBER LLC	12-15-4
I	HUGGINS JOSEPH DEAN	12-15-1
J	RITCHEA WILLIAM D & SHIRLEY E	12-14-9
K	GODDARD WAYNE L	12-9-46
L	WOODSTUFF JOYCE K	12-9-44
M	GODDARD WAYNE L	12-9-33
N	BLAKE VERIL JEROME	12-9-32
O	BLAKE VERIL JEROME	12-9-21
P	SHULUGA ANDREW D & ANDREA M	12-9-13
Q	SHULUGA ANDREW D & ANDREA M	12-9-14
R	SHULUGA ANDREW D & ANDREA M	12-9-15
S	RICHMOND CASSIDI PAIGE	12-10-13
T	RICHMOND CASSIDI PAIGE	12-10-21
U	RITCHEA ROBERT C & JAMES L	12-10-22
V	SWN PRODUCTION COMPANY LLC	12-10-26
W	SWN PRODUCTION COMPANY LLC	12-10-27
X	SWN PRODUCTION COMPANY LLC	12-10-28
Y	YOHO DARREN ET AL	12-10-16
Z	YOHO DARREN ET AL	12-10-18
AA	DURIG CORY & DAVID	1-7-2
AB	CALVERT RODNEY A	12-10-29.4
AC	CALVERT RODNEY A	12-10-29.1

10/08/2021

REVISIONS:	COMPANY: SWN Production Company, LLC		swn <small>Production Company™</small>	
	OPERATOR'S: SWN A WYZ		DATE: 03-23-2021	
	WELL #: 47-103-03453		API NO: 47-103-XXXXX	
	DISTRICT: PROCTOR		DRAWN BY: R. GRIMES	
	STATE: WV		SCALE: N/A	
		DRAWING NO: 2016-519		
		WELL LOCATION PLAT		

**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

*Co-tenancy utilization - At least 7 mineral owners in tract and at least 75% of those owners are leased

**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

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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.

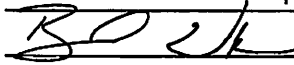
Well Operator: SWN Production Company, LLC
 By: 
 Its: Sr. Landman

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
 SWN A WTZ 401H
 Wetzel County, West Virginia

#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG
1	12-10-29	Isaac L. Carney and Mary Carney, his wife	Hope Natural Gas Company Eagon and Robinson Elva Robinson and Mary Ellen Davis Andrew L. Henry, Charles E. Reed, and Harry R. Cronin, Jr. Charles E. Reed and Kathryn C. Reed Carl Perkins Perkins Oil & Gas, Inc. Stone Energy Corporation Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	18A/25 39A/249 43A/440 44A/92 51A/241 55A/54 84A/9 126A/958 158A/564 167A/9
2	12-10-29.3	Isaac L. Carney and Mary Carney, his wife	Hope Natural Gas Company Eagon and Robinson Elva Robinson and Mary Ellen Davis Andrew L. Henry, Charles E. Reed, and Harry R. Cronin, Jr. Charles E. Reed and Kathryn C. Reed Carl Perkins Perkins Oil & Gas, Inc. Stone Energy Corporation Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	18A/25 39A/249 43A/440 44A/92 51A/241 55A/54 84A/9 126A/958 158A/564 167A/9

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 Wetzel County, West Virginia

3	12-15-8	Joseph C. Dreyer, a single man	Antero Resources Corporation SWN Production Company, LLC	17.00%	178A/385 248A/897
4	12-15-7	H. L. Calvert	J.H. Ferrell Frank W. Hinline and Bertha Hinline Clyde Gillispie and Thelma Gillispie Chester Lemon and Nella Lemon W. L. Smith, Jr. Winnie Miller Orcal C. Baker H. L. Calvert J. W. Tobin Mrs. Paul Stillings Mrs. Paul Stillings Mrs. Paul Stillings Oliver Calvert E.R. Busch W. Frank Jones H.L. Calvert E.R. Busch W.H. Miller W.H. Miller W.H. Miller	12.50%	33A/272 34A/67 34A/68 34A/69 34A/67 34A/32 34A/39 35A/274 34A/74 36A/15 36A/14 37A/112 33A/488 35A/158 34A/33 35A/285 34A/70 35A/149 35A/187 35A/198

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Wade H. Miller	36A/350
Paul V. Stillings	36A/429
Orval C. Baker and Paul Stillings	36A/431
Orval C. Baker	36A/483
Orval C. Baker and Paul V. Stillings	37A/54
Paul Stillings	37A/112
Orval C. Baker and Paul Stillings	37A/155
Paul Stillings	39A/107
G.F. Eagon and John H. Robinson	39A/115
Elva Robinson and Mary Ellen Davis	43A/440
Andrew L. Henry, Charles E. Reed and Harry R. Cronin, Jr.	44A/92
Charles E. Reed and Kathryn C. Reed	51A/241
Carl Perkins	55A/54
Perkins Oil & Gas Inc.	84A/9
Stone Energy Corporation	126A/958
Chesapeake Appalachia, L.L.C.	158A/564
SWN Production Company, LLC	157A/540

5	12-15-6	H. L. Calvert
---	---------	---------------

J.H. Ferrell	12.50%	33A/272
Frank W. Hine and Bertha Hine		34A/67
Clyde Gillispie and Thelma Gillispie		34A/68
Chester Lemon and Nella Lemon		34A/69
W. L. Smith, Jr.		34A/67
Winnie Miller		34A/32
Orval C. Baker		34A/39
H. L. Calvert		35A/274

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J. W. Tobin	34A/74
Mrs. Paul Stillings	36A/15
Mrs. Paul Stillings	36A/14
Mrs. Paul Stillings	37A/112
Oliver Calvert	33A/488
E.R. Busch	35A/158
W. Frank Jones	34A/33
H.L. Calvert	35A/285
E.R. Busch	34A/70
W.H. Miller	35A/149
W.H. Miller	35A/187
W.H. Miller	35A/198
Wade H. Miller	36A/350
Paul V. Stillings	36A/429
Orval C. Baker and Paul Stillings	36A/431
Orval C. Baker	36A/483
Orval C. Baker and Paul V. Stillings	37A/54
Paul Stillings	37A/112
Orval C. Baker and Paul Stillings	37A/155
Paul Stillings	39A/107
G.F. Eagon and John H. Robinson	39A/115
Elva Robinson and Mary Ellen Davis	43A/440
Andrew L. Henry, Charles E. Reed and Harry R. Cronin, Jr.	44A/92

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			Charles E. Reed and Kathryn C. Reed	51A/241	
			Carl Perkins	55A/54	
			Perkins Oil & Gas Inc.	84A/9	
			Stone Energy Corporation	126A/958	
			Chesapeake Appalachia, L.L.C.	158A/564	
			SWN Production Company, LLC	157A/540	
6	12-10-33	H. L. Calvert	J.H. Ferrell	12.50%	33A/272
			Frank W. Hinehine and Bertha Hinehine		34A/67
			Clyde Gillispie and Thelma Gillispie		34A/68
			Chester Lemon and Nella Lemon		34A/69
			W. L. Smith, Jr.		34A/67
			Winnie Miller		34A/32
			Orcal C. Baker		34A/39
			H. L. Calvert		35A/274
			J. W. Tobin		34A/74
			Mrs. Paul Stillings		36A/15
			Mrs. Paul Stillings		36A/14
			Mrs. Paul Stillings		37A/112
			Oliver Calvert		33A/488

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W. Frank Jones	34A/33
H.L. Calvert	35A/285
E.R. Busch	34A/70
W.H. Miller	35A/149
W.H. Miller	35A/187
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Paul V. Stillings	36A/429
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Paul Stillings	37A/112
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Andrew L. Henry, Charles E. Reed and Harry R. Cronin, Jr.	44A/92
Charles E. Reed and Kathryn C. Reed	51A/241
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 Wetzel County, West Virginia

7	12-10-32	H. L. Calvert	J.H. Ferrell	12.50%	33A/272
			Frank W. Hineine and Bertha Hineine		34A/67
			Clyde Gillispie and Thelma Gillispie		34A/68
			Chester Lemon and Nella Lemon		34A/69
			W. L. Smith, Jr.		34A/67
			Winnie Miller		34A/32
			Orval C. Baker		34A/39
			H. L. Calvert		35A/274
			J. W. Tobin		34A/74
			Mrs. Paul Stillings		36A/15
			Mrs. Paul Stillings		36A/14
			Mrs. Paul Stillings		37A/112
			Oliver Calvert		33A/488
			E.R. Busch		35A/158
			W. Frank Jones		34A/33
			H.L. Calvert		35A/285
			E.R. Busch		34A/70
			W.H. Miller		35A/149
			W.H. Miller		35A/187
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			Orval C. Baker		36A/483
			Orval C. Baker and Paul V. Stillings		37A/54
			Paul Stillings		37A/112

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 SWN A WTZ 401H
 Wetzel County, West Virginia

			Orval C. Baker and Paul Stillings		37A/155
			Paul Stillings		39A/107
			G.F. Eagon and John H. Robinson		39A/115
			Elva Robinson and Mary Ellen Davis		43A/440
			Andrew L. Henry, Charles E. Reed and Harry R. Cronin, Jr.		44A/92
			Charles E. Reed and Kathryn C. Reed		51A/241
			Carl Perkins		55A/54
			Perkins Oil & Gas Inc.		84A/9
			Stone Energy Corporation		126A/958
			Chesapeake Appalachia, L.L.C.		158A/564
			SWN Production Company, LLC		157A/540
8	Proctor Creek Road (County Highway 89)	West Virginia Department of Transportation, Division of Highways	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	144A/555 157A/540
9	12-10-31	Appalachian Royalties, Inc.	SWN Production Company, LLC	18.00%	188A/126
		Haddad and Brooks, Inc.	SWN Production Company, LLC	18.00%	185A/589
		Joseph Dean Huggins & Bobbie Sue Huggins, husband and wife	SWN Production Company, LLC	18.00%	185A/587

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 SWN A WTZ 401H
 Wetzel County, West Virginia

10	12-10-25	F. C. Emch and Thelma M. Emch, his wife; Jerald Yocum and Mildred Yocum, his wife; Iva M. Gray and Bud Gray, her husband; Ocia Williams and Hobert Williams, her husband; Arlie Young and Virgil Young, her husband; Ica Harlan and Elmer Harlan, her husband	The Manufacturer's Light and Heat Company Columbia Gas Transmission Corporation Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	47A/48 263/164 90A/242 157A/540
11	12-10-24	Royalty Owners	n/a	n/a	n/a
		James J. Postelwait, widower; William Postelwait, widower; Jane Calvert, widow; K. W. Calvert and Grace E. Calvert, his wife; Dorothy Higgins Waryck and Arthur L. Waryck, her husband; Edan Carney and Carl Carney, her husband; Ella Postlethwait, widow	The Manufacturer's Light and Heat Company Columbia Gas Transmission Corporation Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	45A/255 263/164 90A/242 157A/540
		Gary A. Ritchea & Alicia L. Ritchea, husband and wife	SWN Production Company, LLC	18.00%	201A/744
		Linda S. Long, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	201A/749
		Rose M. Herman, a widow	SWN Production Company, LLC	18.00%	202A/337
		Nora A. Parsons a/k/a Nora A. Hood, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	202A/948
		Shirley A. Postlethwait, a single woman	SWN Production Company, LLC	18.00%	203A/13

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SWN A WTZ 401H
Wetzel County, West Virginia

Nelda J. Walton, a single woman	SWN Production Company, LLC	18.00%	203A/23
Ruth E. Shreves, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	203A/28
Sandra M. Huggins & Wayne Huggins, wife and husband	SWN Production Company, LLC	18.00%	203A/40
Tammie S. Willey, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	203A/45
Marilyn R. Hendershot, a widow	SWN Production Company, LLC	18.00%	203A/177
Ronald L. Ebert & Sally Jo Ebert, husband and wife	SWN Production Company, LLC	18.00%	203A/182
Candice Kay Lehman & Kenneth R. Lehman, wife and husband	SWN Production Company, LLC	18.00%	203A/187
Kenneth M. Ebert & Linda A. Ebert, husband and wife	SWN Production Company, LLC	18.00%	203A/823
Jennifer R. Dieterich, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	203A/828
Carol E. Guzek & John T. Guzek, wife and husband	SWN Production Company, LLC	18.00%	203A/840
Alice M. Hammel, a widow	SWN Production Company, LLC	18.00%	204A/565

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SWN A WTZ 401H
Wetzel County, West Virginia

William D. Ritchea & Shirley E. Ritchea, husband and wife	SWN Production Company, LLC	18.00%	204A/570
Michael S. Ebert & Michelle A. Ebert, husband and wife	SWN Production Company, LLC	18.00%	204A/575
Kevin A. Ebert, a single man	SWN Production Company, LLC	18.00%	204A/580
James L. Ritchea & Hazel J. Ritchea, husband and wife	SWN Production Company, LLC	18.00%	204A/585
Jayne L. Richarson, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	204A/597
Nancy L. Neely, a widow	SWN Production Company, LLC	18.00%	204A/602
Robert C. Ritchea & Mary L. Ritchea, husband and wife	SWN Production Company, LLC	18.00%	204A/622
Sharon Lynn Coil, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	204A/627
Randy K. Ritchea, a single man	SWN Production Company, LLC	18.00%	204A/632
Deborah Ann Scales, a single woman	SWN Production Company, LLC	18.00%	204A/643
Tonya M. Henderson, a single woman	SWN Production Company, LLC	18.00%	205A/320

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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
SWN A WTZ 401H
Wetzel County, West Virginia

George E. Rose, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	205A/325
Wanda J. Rose, a single woman	SWN Production Company, LLC	18.00%	205A/330
Thomas A. Rosen, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	205A/840
Rodney E. Ebert, a single man	SWN Production Company, LLC	18.00%	205A/845
Ronald R. Rosen, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	205A/850
Austin B. Postlethwait, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	206A/511
Susan L. Hill & Donald E. Hill, wife and husband	SWN Production Company, LLC	18.00%	206A/516
David M. Stoneking & Judy M. Stoneking, husband and wife	SWN Production Company, LLC	18.00%	206A/521
Ralph L. Stoneking, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	206A/526
Rosemary Walton & Kenneth Walton, wife and husband	SWN Production Company, LLC	18.00%	207A/211
Royal W. Miller & Margaret A. Miller, husband and wife	SWN Production Company, LLC	18.00%	207A/216

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SWN A WTZ 401H
Wetzel County, West Virginia

Nicole L. Thacker, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	207A/221
Sean A. Coffey, a single man	SWN Production Company, LLC	18.00%	207A/226
John Matthew Stoneking a/k/a Mathew Stoneking, a single man	SWN Production Company, LLC	18.00%	207A/231
J. Michael Stoneking a/k/a Michael Stoneking, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	207A/236
Ronald R. Johnson, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	207A/588
Norman L. Johnson & Nancy A. Johnson, husband and wife	SWN Production Company, LLC	18.00%	207A/593
Jennifer Lee Herback, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	207A/598
Mark A. Goddard, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	207A/603
Hobert L. Johnson, a widower	SWN Production Company, LLC	18.00%	207A/608
Terri D. Coffey, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	207A/613
Raymond R. Stoneking & Sharon K. Stoneking, husband and wife	SWN Production Company, LLC	18.00%	207A/618

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SWN A WTZ 401H
Wetzel County, West Virginia

Nila Jean Efaw, a single woman	SWN Production Company, LLC	18.00%	207A/623
Twila J. Mason, a single woman	SWN Production Company, LLC	18.00%	207A/628
Gregory A. Preston & Lori A. Preston, husband and wife	SWN Production Company, LLC	18.00%	207A/633
Carolyn S. James & Edward L. James Jr., wife and husband	SWN Production Company, LLC	18.00%	207A/638
Glenda J. Miller, a widow	SWN Production Company, LLC	18.00%	208A/821
Beverly L. Cunningham, a widow	SWN Production Company, LLC	18.00%	208A/826
Susan M. Boggs, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	208A/831
Kimberly Nicole Eagleson, a married woman	SWN Production Company, LLC	18.00%	209A/381
Linda M. Stout, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	209A/386
Randy C. Kisner & Rebecca M. Kisner, husband and wife	SWN Production Company, LLC	18.00%	209A/391
Roger W. Hammond, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	210A/62

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SWN A WTZ 401H
Wetzel County, West Virginia

Jeffrey S. McKinney, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	210A/67
Gerald L. Miller, a single man	SWN Production Company, LLC	18.00%	211A/164
Craig M. Ramsey, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	211A/169
Jason S. Ramsey, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	211A/174
Lloyd A. Miller, a single man	SWN Production Company, LLC	18.00%	211A/179
Barry C. Carroll, a single man	SWN Production Company, LLC	18.00%	211A/189
Matthew T. Ebert, a single man	SWN Production Company, LLC	18.00%	211A/201
Patrick R. Goddard, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	212A/154
Melissa K. Ebert, a single woman	SWN Production Company, LLC	18.00%	212A/159
Julie S. Shaffer, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	213A/126
Karen J. Aeschbacher a/k/a Karen J. Krebs, a widow	SWN Production Company, LLC	18.00%	213A/131

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SWN A WTZ 401H
Wetzel County, West Virginia

Kathy Rae Snyder a/k/a Kathy M. Snyder, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	213A/141
Heather N. Ramsey, a widow	SWN Production Company, LLC	18.00%	213A/146
Joseph Dale Brown, a single man	SWN Production Company, LLC	18.00%	214A/255
Sarah Jo Anderson, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	215A/442
Mathew S. Postlethwait, a single man	SWN Production Company, LLC	18.00%	216A/325
Vincent Cody Morris, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	216A/335
Scott Dennis Pavlik, a single man	SWN Production Company, LLC	18.00%	217A/46
Megan Elizabeth Logsdon, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	217A/51
Steven M. Postlethwait, a single man	SWN Production Company, LLC	18.00%	217A/81
Mary Margaret Bowen, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	217A/840
Christopher L. Brown, a single man	SWN Production Company, LLC	18.00%	217A/867

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SWN A WTZ 401H
Wetzel County, West Virginia

Andrew S. Hammond & Tina R. Hammond, husband and wife	SWN Production Company, LLC	18.00%	218A/597
Darrell S. Ramsey, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	219A/723
Christina A. Raiz, a single woman	SWN Production Company, LLC	18.00%	219A/738
Lawrence L. Ramsey, Jr., a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	220A/345
Anita Denise Barnes a/k/a Anita Denise Goddard, a married woman, dealing in her sole and separate property	SWN Production Company, LLC	18.00%	221A/159
Deanna L. Wright a/k/a Deanna Lou (Ebbert) Wright, a widow	SWN Production Company, LLC	17.00%	222A/780
Carol L. Westover, a single woman	SWN Production Company, LLC	18.00%	223A/203
Daniel A. Postlethwait Jr., a married man, dealing in his sole and separate property	SWN Production Company, LLC	18.00%	223A/666
Michael S. Goddard, a single man	SWN Production Company, LLC	18.00%	229A/728
Larry K. Stoneking, a married man, dealing in his sole and separate property	SWN Production Company, LLC	18.00%	238A/17
Lloyd D. Ebbert & Jana L. Ebbert, husband and wife	SWN Production Company, LLC	18.00%	254A/168

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 SWN A WTZ 401H
 Wetzel County, West Virginia

12	12-10-23	Ella Postlethwait, widow	The Manufacturer's Light and Heat Company Columbia Gas Transmission Corporation Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	45A/231 263/164 90A/242 157A/540
13	12-10-20	Ella Postlethwait, widow	The Manufacturer's Light and Heat Company Columbia Gas Transmission Corporation Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	45A/231 263/164 90A/242 157A/540
14	12-9-23	Willard C. Herman, single	The Manufacturer's Light and Heat Company Columbia Gas Transmission Corporation Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	45A/459 263/164 90A/242 157A/540
15	12-9-22	C.F. Herman and Edna M. Herman, his wife	The Manufacturer's Light and Heat Company Columbia Gas Transmission Corporation Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	45A/367 263/164 90A/242 157A/540

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 Office of Oil and Gas
 AUG 30 2021
 West Virginia Department of
 Environmental Protection

August 19, 2021

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

RE: SWN's proposed New Well: SWN A WTZ 401H in Wetzel County, West Virginia, Drilling under Middle Fork Road, Hollman Ridge Road and Proctor Creek Road.

Dear Mr Brewer:

SWN Production Company, LLC ("SWN") is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to SWN's right to drill under Middle Fork Road, Hollman Ridge Road and Proctor Creek Road. 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,



Bradley Wilson
Senior Landman
SWN Production Company, LLC

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10/08/2021

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

Date of Notice Certification: 7/27

API No. 47-~~005~~ - _____
Operator's Well No. SWN A WTZ 401H
Well Pad Name: SWN A WTZ Pad

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>530898.27</u>
County:	<u>103-Wetzel</u>		Northing:	<u>4392598.42</u>
District:	<u>Proctor</u>	Public Road Access:	<u>Macedonia Ridge Road</u>	
Quadrangle:	<u>Wileyville</u>	Generally used farm name:	<u>SWN A</u>	
Watershed:	<u>Upper Ohio South</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		OOG OFFICE USE ONLY
<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	RECEIVED Office of Oil and Gas AUG 30 2021 WV Department of Environmental Protection	<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.

10/08/2021

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:	<u>SWN Production Co., LLC</u>	Address:	<u>P.O. Box 1300</u>
By:	<u>Brittany Woody</u>		<u>Jane Lew, WV 26378</u>
Its:	<u>Senior Regulatory Analyst</u>	Facsimile:	<u>304-884-1690</u>
Telephone:	<u>304-884-1610</u>	Email:	<u>Brittany_Woody@swn.com</u>

Brittany Woody



Subscribed and sworn before me this 5th day of April, 2021.

Reid Croft Notary Public

My Commission Expires 8/21/2024

Oil and Gas Privacy Notice:

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

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Office of Oil and Gas
AUG 30 2021
WV Department of
Environmental Protection

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: 8/21 Date Permit Application Filed: 8/21

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: SWN Production Company, LLC
Address: PO Box 672625
Houston, TX 77267

Name: _____
Address: _____

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: CNX Gas Company, LLC Attn: Casey Saunders
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: See Attachment 13A
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary

RECEIVED
Office of Oil and Gas
Casey Saunders
AUG 30 2021
WV Department of Environmental Protection

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting 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

10/08/2021

WW-6A
(8-13)

API NO. 47-~~103~~ - 03453
OPERATOR WELL NO. SWN A WTZ 401H
Well Pad Name: SWN A WTZ Pad

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 termination 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 57th St. SE
Charleston, WV 25304
(304) 926-0450

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

AUG 30 2021

WV Department of Environmental Protection

10/08/2021

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.

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WV Department of
Environmental Protection

WW-6A
(8-13)

API NO. 47-~~103~~ - 03453
OPERATOR WELL NO. SWN A WTZ 401H
Well Pad Name: SWN A WTZ Pad

Notice is hereby given by:

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

Brittany Woody

Address: P.O. Box 1300
Jane Lew, WV 26378
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 deprivacyofficer@wv.gov.



Subscribed and sworn before me this 5th day of April, 2021.
Reid Croft Notary Public
My Commission Expires 8/21/2024

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Office of Oil and Gas
AUG 30 2021
WV Department of
Environmental Protection

10/08/2021

4710303453

OWNERNAME	ADDRESS	CITY/STATE/ZIP	WATERSOURCES
YEATER TERRY W & DORIS	1592 McBride Ridge Road	NEW MARTINSVILLE, WV 26155	1 ✓
YOHO NORMA F	828 GREENLAWN AVE NW	WARREN, OH 44483	2 ✓
YOCUM GARY G & LAVERNE F	HC 60 BOX 252	NEW MARTINSVILLE, WV 26155	4 ✓
BICKERSTAFF JACOB & ANNA	14383 PROCTOR CREEK RD	NEW MARTINSVILLE, WV 26155	1 ✓
CALVERT RODNEY A	13998 PROCTOR CREEK RD	NEW MARTINSVILLE, WV 26155	7 ✓

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WV Department of
Environmental Protection

10/08/2021

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: 3/2/2021 **Date of Planned Entry:** 3/9/2021

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: SWN Production Company, LLC ✓
Address: PO Box 672625
Houston, TX 77267

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: CNX Gas Company, LLC Attn: Casey Saunders
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

MINERAL OWNER(s)

Name: Franklin Thomas Barrett
Address: 595 W. New York Ave
Sebring, OH 44672

*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: WV
County: Wetzel
District: Prector
Quadrangle: Wileyville

Approx. Latitude & Longitude: 39.884757, -80.840554
Public Road Access: Macadonia Ridge
Watershed: Upper Ohio South
Generally used farm name: SWN A WTZ Pad

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

Notice is hereby given by:

Well Operator: SWN PRODUCTION COMPANY, LLC
Telephone: 304-884-1610
Email: brittany_woody@swn.com

Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
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.

10/08/2021

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

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

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- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

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Notice is hereby provided to:

SURFACE OWNER(s)
Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: _____
Address: _____

MINERAL OWNER(s)
Name: Sharon Zeppernick
Address: 626 W. Virginia Avenue
Sebring, OH 44672

*please attach additional forms if necessary

RECEIVED
Office of Oil and Gas
AUG 30 2021
WV Department of Environmental Protection

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:	WV	Approx. Latitude & Longitude:	39.684757, -80.640554
County:	Wetzel	Public Road Access:	Macedonia Ridge
District:	Proctor	Watershed:	Upper Ohio South
Quadrangle:	Willeyville	Generally used farm name:	SWN A WIZ Pad

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

Notice is hereby given by:

Well Operator: SWN PRODUCTION COMPANY, LLC
Telephone: 304-884-1610
Email: dep_southall@swn.com or brittany_woody@swn.com

Address: PO BOX 1300
JANE LEW, WV 26378
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.

10/08/2021

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

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

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Notice is hereby provided to:

SURFACE OWNER(s)
 Name: _____
 Address: _____

 Name: _____
 Address: _____

 Name: _____
 Address: _____

COAL OWNER OR LESSEE
 Name: _____
 Address: _____

MINERAL OWNER(s)
 Name: Jeffrey L. Fish
 Address: 18757 Beverly Drive
 North Benton, OH 4449

*please attach additional forms if necessary

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Office of Oil and Gas
AUG 30 2021
WV Department of Environmental Protection

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:	WV	Approx. Latitude & Longitude:	39.684757, -80.640554
County:	Wetzel	Public Road Access:	Macedonia Ridge
District:	Proctor	Watershed:	Upper Ohio South
Quadrangle:	Wileyville	Generally used farm name:	SWN A Wtz Pad

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

Notice is hereby given by:

Well Operator: SWN PRODUCTION COMPANY, LLC
 Telephone: 304-884-1610
 Email: des_southall@swn.com or brittany_woody@swn.com

Address: PO BOX 1300
 JANE LEW, WV 26378
 Facsimile: _____

Oil and Gas Privacy Notice:

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10/08/2021

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

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

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Notice is hereby provided to:

SURFACE OWNER(s)
 Name: _____
 Address: _____

 Name: _____
 Address: _____

 Name: _____
 Address: _____

COAL OWNER OR LESSEE
 Name: _____
 Address: _____

MINERAL OWNER(s)
 Name: Michael A. Fish
 Address: 18795 Beverly Drive
North Benton, OH 4449
 *please attach additional forms if necessary

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Office of Oil and Gas
APR 30 2021

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>39.884757, -80.640554</u>
County: <u>Welzel</u>	Public Road Access: <u>Macedonia Ridge</u>
District: <u>Proctor</u>	Watershed: <u>Upper Ohio South</u>
Quadrangle: <u>Wileyville</u>	Generally used farm name: <u>SWN A WTZ Pad</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 57th 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.

Notice is hereby given by:

Well Operator: <u>SWN PRODUCTION COMPANY, LLC</u>	Address: <u>PO BOX 1300</u>
Telephone: <u>304-834-1610</u>	<u>JANE LEW, WV 26376</u>
Email: <u>dee_southall@swn.com or brittany_woody@swn.com</u>	Facsimile: _____

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10/08/2021

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

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

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- REGISTERED MAIL
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Notice is hereby provided to:

SURFACE OWNER(s)
 Name: _____
 Address: _____

 Name: _____
 Address: _____

 Name: _____
 Address: _____

COAL OWNER OR LESSEE
 Name: _____
 Address: _____

MINERAL OWNER(s)
 Name: Timothy N. Burley ✓
 Address: 10608 Ravenra Ave
Louisville, OH 44641

*please attach additional forms if necessary

Notice is hereby given:

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State:	<u>WV</u>	Approx. Latitude & Longitude:	<u>39.684757, -80.640554</u>
County:	<u>Wetzel</u>	Public Road Access:	<u>Macedonia Ridge</u>
District:	<u>Proctor</u>	Watershed:	<u>Upper Ohio South</u>
Quadrangle:	<u>Wileyville</u>	Generally used farm name:	<u>SWNA WIZ Pad</u>

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Notice is hereby given by:

Well Operator:	<u>SWN PRODUCTION COMPANY, LLC</u>	Address:	<u>PO BOX 1300</u>
Telephone:	<u>304-884-1610</u>		<u>JANE LEW, WV 26378</u>
Email:	<u>dea_southall@swn.com or brittany_woody@swn.com</u>	Facsimile:	_____

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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
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Notice is hereby provided to:

SURFACE OWNER(S)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: _____
Address: _____

 MINERAL OWNER(S)

Name: Rodney A. Calvert ✓
Address: 13998 Proctor Creek Road
New Martinsville, WV 26155

*please attach additional forms if necessary

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County: Wetzel
District: Proctor
Quadrangle: Wileyville

Approx. Latitude & Longitude: 39.984757, -80.640554
Public Road Access: Macedonia Ridge
Watershed: Upper Ohio South
Generally used farm name: SWN A WTZ Pad

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

Notice is hereby given by:

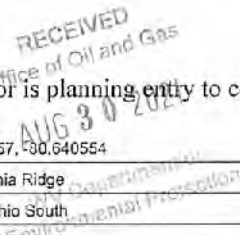
Well Operator: SWN PRODUCTION COMPANY, LLC
Telephone: 304-884-1610
Email: dea_southall@swn.com or brittany_woody@swn.com

Address: PO BOX 1300
JANE LEW, WV 26378
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.

10/08/2021



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: 3/2/2021 **Date of Planned Entry:** 3/9/2021

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: _____
 Address: _____

 Name: _____
 Address: _____

 Name: _____
 Address: _____

COAL OWNER OR LESSEE
 Name: _____
 Address: _____

MINERAL OWNER(s) ✓
 Name: Krystal K. Camp
 Address: 9355 Pricetown Road
Berlin Center, OH 44401
 *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>39.694757, -80.640554</u>
County: <u>Wetzel</u>	Public Road Access: <u>Macedonia Ridge</u>
District: <u>Proctor</u>	Watershed: <u>Upper Ohio South</u>
Quadrangle: <u>Wileyville</u>	Generally used farm name: <u>SWN A WTZ Pad</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 57th 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.

Notice is hereby given by:

Well Operator: SWN PRODUCTION COMPANY, LLC
 Telephone: 304-884-1610
 Email: dee_southall@swn.com or brittany_woody@swn.com

Address: PO BOX 1330
JANE LEW, WV 26378
 Facsimile: _____

Office of Oil and Gas
AUG 30 2021
WV Department of Environmental Protection

Oil and Gas Privacy Notice:

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10/08/2021

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: 3/2/2021 **Date of Planned Entry:** 3/9/2021

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: _____
 Address: _____

 Name: _____
 Address: _____

 Name: _____
 Address: _____

COAL OWNER OR LESSEE
 Name: _____
 Address: _____

MINERAL OWNER(s)
 Name: Cerrow, LLC
 Address: 535 Briardiff Court
 New Martinsville, WV 26155

*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:	WV	Approx. Latitude & Longitude:	39.684757, -80.640554
County:	Welzel	Public Road Access:	Macedonia Ridge
District:	Proctor	Watershed:	Upper Ohio South
Quadrangle:	Wileyville	Generally used farm name:	SWN A WTZ Pad

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

Notice is hereby given by:

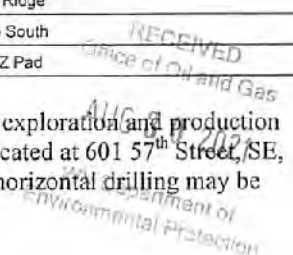
Well Operator: SWN PRODUCTION COMPANY, LLC
 Telephone: 304-964-1510
 Email: dee_southall@swn.com or brittany_woody@swn.com

Address: PO BOX 1300
 JANE LEW, WV 26378
 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 deprivacyofficer@wv.gov.

10/08/2021



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: 3/2/2021 **Date of Planned Entry:** 3/9/2021

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: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: _____
Address: _____

MINERAL OWNER(s)
Name: Nancy G Metheny
Address: 3948 N. Park Ave
Warren, OH 44481
*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>39.684757, -80.640554</u>
County:	<u>Wetzel</u>	Public Road Access:	<u>Macedonia Ridge</u>
District:	<u>Proctor</u>	Watershed:	<u>Upper Ohio South</u>
Quadrangle:	<u>Wileyville</u>	Generally used farm name:	<u>SWN A WTZ Pad</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 57th 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.

Notice is hereby given by:

Well Operator:	<u>SWN PRODUCTION COMPANY, LLC</u>	Address:	<u>PO BOX 1300</u>
Telephone:	<u>304-884-1810</u>		<u>JANE LEW, WV 26378</u>
Email:	<u>dee_southall@swn.com or brilliany_worby@swn.com</u>	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.

10/08/2021

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: 3/2/2021 **Date of Planned Entry:** 3/9/2021

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: _____
 Address: _____

 Name: _____
 Address: _____

 Name: _____
 Address: _____

COAL OWNER OR LESSEE
 Name: _____
 Address: _____

 MINERAL OWNER(s) ✓
 Name: Ammon A. Burley
 Address: 13 Amos Hollow Road
 Cameron, WV 26033

*please attach additional forms if necessary

RECEIVED
Office of Oil and Gas
APR 30 2021
Department of Environmental Protection

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: WV	Approx. Latitude & Longitude: 39.684757, -80.640554
County: Wetzell	Public Road Access: Macedonia Ridge
District: Proctor	Watershed: Upper Ohio South
Quadrangle: Wiloyville	Generally used farm name: SWN A WTZ Pad

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

Notice is hereby given by:

Well Operator: SWN PRODUCTION COMPANY, LLC	Address: PO BOX 1300
Telephone: 304-694-1610	JANE LEW, WV 26378
Email: dee_southhall@swn.com or brittany_woody@swn.com	Facsimile: _____

Oil and Gas Privacy Notice:

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10/08/2021

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: 03/18/2021 Date Permit Application Filed: 7/21

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: SWN Production Company, LLC
Address: PO Box 672629
Houston, TX 77267

Name: _____
Address: _____



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: 530,898.272
County: Wetzell Northing: 4,392,596.415
District: Proctor Public Road Access: Macedonia Ridge
Quadrangle: Wileyville, WV Generally used farm name: SWN A WIZ
Watershed: Upper Ohio South

This Notice Shall Include:

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

Notice is hereby given by:

Well Operator: SWN Production Company, LLC
Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Telephone: 304-884-1675
Email: Justin_Booth@swn.com
Facsimile: 304-884-1691

Authorized Representative: Justin Booth
Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Telephone: 304-834-1675
Email: Justin_Booth@swn.com
Facsimile: 304-864-1691

Oil and Gas Privacy Notice:

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 03/18/2021 **Date Permit Application Filed:** 3/17

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

- CERTIFIED MAIL RETURN RECEIPT REQUESTED
- HAND DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: SWN Production Company, LLC	Name: _____
Address: PO box 672625 Houston, TX 77267	Address: _____

Notice is hereby given:

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

State: West Virginia	UTM NAD 83	Easting: 530,898.272
County: Wetzel		Northing: 4,392,596.415
District: Proctor	Public Road Access: Macedonia Ridge	
Quadrangle: Wileyville, WV	Generally used farm name: SWN AWTZ	
Watershed: Upper Ohio South		

This Notice Shall Include:

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

Well Operator: SWN Production Company, LLC	Address: 1300 Fort Pierpont Dr., Suite 201
Telephone: 304-884-1675	Morgantown, WV 26508
Email: Justin_Booth@SWN.com	Facsimile: 304-884-1691

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Byrd E. White, III
Secretary of Transportation/
Commissioner of Highways

March 10, 2021

Jimmy Wriston, P. E.
Deputy Secretary/
Deputy Commissioner

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

Subject: DOH Permit for the SWN A Pad, Wetzel County
SWN A WTZ.401H Well Site

RECEIVED
Office of Oil and Gas
AUG 30 2021
WV Department of
Environmental Protection

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2018-0223 which has been issued to Southwestern Energy for access to the State Road for a well site located off Wetzel County Route 89 SLS MP 14.37.

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,

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

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

Attachment VI Frac Additives

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-Alkylmethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
Bactron K-219 (Champion Technologies)	Biocide	Methanol	67-56-1
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkylmethyl, Chlorides	68424-85-1
CarboNRT	Tracer	Ceramic Proppant	66402-68-4
EC5486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate	Proprietary
		Ethylene Glycol	107-21-1
EC5734A (Champion Technologies)	Biocide	Hydrogen Peroxide	7722-84-1
		Acetic Acid	64-19-7
		Peroxyacetic Acid	79-21-0
Econo-Cl200 (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	7792-89-9
		Water	7732-18-5
FDP-51176-15 (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-350 (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-85 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	7732-18-5
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 PS50A	Biocidal product	Tetrakis (hydroxymethyl) phosphonium sulphate	55566-30-8
		Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups	397256-50-7
LD-2950	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
		Ethoxylated alcohol	Proprietary
		Poly (oxy-1,2-ethanediyl) alpha,-tridecyl-omega,-hydroxy-, branched	69011-36-5
Legend LD-7750W	Scale Control	Methanol	67-56-1
		Phosphoric Acid Salt	Proprietary
MC MX 8-4743	Specialty Product	Sodium Nitrate	7647-14-5

NOTES:

1. THIS PLAN IS FOR GRADING, STORMWATER SYSTEMS, AND EROSION AND SEDIMENT CONTROL PURPOSES ONLY.
2. PROPERTY INFORMATION SHOWN HEREON IS FROM GIS DATA PROVIDED BY SOUTHWESTERN ENERGY PRODUCTION COMPANY AND HAS NOT BEEN FIELD VERIFIED.
3. THE CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SET FULLY DEPICTS ALL WORK ASSOCIATED WITH THIS PROJECT.
4. SOIL TYPE BOUNDARY, AND CHARACTERISTICS SHOWN HEREON WERE ACQUIRED FROM NRCS WEB SOIL SURVEY.
5. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL ENGINEERING REPORT, DATED MARCH 21, 2017, PROVIDED BY GTA ENERGY, LLC FOR FULL SOIL STABILIZATION TECHNIQUES TO BE IMPLEMENTED IN CONSTRUCTION OF CUT AND FILL SLOPES.
6. THE TOPOGRAPHIC SURVEY USED FOR THIS BASE MAPPING INSIDE THE LOD WAS PERFORMED BY JHA COMPANIES FROM JANUARY 03, 2017 TO JUNE 28, 2018. TOPOGRAPHIC MAPPING OUTSIDE OF THE LOD IS FROM LIDAR DATA FROM WV GIS TECHNICAL CENTER.
7. NO TOPSOIL REMOVAL BETWEEN LIMIT OF CONSTRUCTION AND LIMIT OF DISTURBANCE. VEGETATIVE BUFFER TO REMAIN.
8. FILL WILL BE COMPACTED TO 95% OF STANDARD PROCTOR DENSITY (ASTM 698). FILL LIFT THICKNESS WILL BE NO GREATER THAN 12", NOTHING FROZEN OR TOO WET WILL BE PLACED IN FILL AREAS. PARTICLE SIZE OF THE FILL WILL BE NO GREATER THAN 6" AND FREE OF OBJECTIONABLE MATERIAL.

EROSION AND SEDIMENT CONTROL PLAN FOR SWN PAD A PROCTOR DISTRICT, WETZEL COUNTY, WEST VIRGINIA WILEYVILLE 7.5 MINUTE QUAD MAPS



PROJECT NARRATIVE
PROPOSED CONSTRUCTION TO BE PERFORMED IN ACCORDANCE WITH THIS DRAWING SET (43 PAGE SHEET SET, DATED 2018-07-17 & REVISIONS DATED 2018-08-03) AND THE GEOTECHNICAL ENGINEERING REPORT (GTA ENERGY, LLC REPORT), WHICH ARE COMPLEMENTARY AND HAVE THE SAME FORCE / EFFECT IN DEFINING THE REQUIREMENTS FOR THE PROJECT. IN THE EVENT OF DISCREPANCIES, IT IS REQUIRED TO IMMEDIATELY CONTACT THE ENGINEER (AGENT) FOR INTERPRETATION.

PROJECT CONTACTS
OPERATOR:
SOUTHWESTERN ENERGY, LLC
179 INNOVATION DRIVE
JANE LEW, WV 26378
PHONE: (304) 884-1618
WWW.SWN.COM

PROJECT COORDINATOR:
KALAB TAYLOR
SOUTHWESTERN ENERGY, LLC
OPERATIONS ANALYST
179 INNOVATION DRIVE
JANE LEW, WV 26378
PHONE: (304) 884-1695
EMAIL: KALAB_TAYLOR@SWN.COM

ENGINEER
JHA COMPANIES
68011 VINEYARD ROAD
ST. CLAIRSVILLE, OHIO 43950
PHONE: (740) 695-6100
FAX: (740) 449-2343

PROJECT MANAGER:
JOHN DUBOWSKI

ENVIRONMENTAL:
WETLANDS OR SURFACE WATER INFORMATION WAS DELINEATED BY AJAY ENVIRONMENTAL CONSULTING, LLC DATED FEBRUARY 16, 2018 AND JULY 16, 2018.

TOPOGRAPHIC INFORMATION:
GROUND SURVEY DATED JANUARY 28, 2018
DATUM: HORZ. NAD 83 WEST VIRGINIA NORTH
VERT. NAVD 88



LOCATION MAP NOT TO SCALE	
NO.	DESCRIPTION
1	08/03/18 REVISED PER DEP COMMENTS

2 WORKING DAYS BEFORE YOU DAY CALL TOLL FREE 800-245-4848 Miss Utility of West Virginia

PREPARED FOR:
SWN
Southwestern Energy®



JHA Companies SURVEYORS ENGINEERS ENVIRONMENTAL GIS MAPPING
www.jhacompanies.com

68011 VINEYARD ROAD
ST. CLAIRSVILLE, OH 43950
(740) 695-6100
PA • OH • NY • WV

PROJECT NO:	2017-520	DRAWN:	CLW
DATE:	08/03/2018	DESIGN:	CLW
SCALE:	AS NOTED	CHECKED:	JPD

CONSTRUCTION PLANS FOR SWN PAD A
LOCATED IN PROCTOR DISTRICT, WETZEL COUNTY, WEST VIRGINIA

TITLE:	COVER SHEET
PLAN STATUS:	FINAL
SHEET NO.:	C.001

ENGINEER'S ESTIMATE OF QUANTITIES		
DESCRIPTION	ESTIMATED QUANTITY	UNIT
1" COMPOST FILTER SOCK	135	LF
24" COMPOST FILTER SOCK	4,475	LF
ROCK CONSTRUCTION ENTRANCE R-3 AGGREGATE	144	CY
CLASS 4 GEOTEXTILE (APRON UNDERLAYMENT)	434	SY
SITE RESOIL AREA	7.4	AC
PROPOSED STORM CATCHBASINS	5	EA
18" HDPE STORM PIPE (DGC 1 AND 3)	142.5	LF
4" HDPE STORM PIPE (DGC 2)	60	LF
OUTLET PROTECTION	2	EA
6" PERF. PVC SCH 40 PIPE (PAD UNDERDRAIN)	1,715	LF
4" SOLID PVC SCH 40 PIPE (CATCH BASIN OUTLET)	407	LF
WELL PAD PERIMETER BERM	1,745	LF
4" GATE VALVES	5	EA
4" PERF. PVC SDR 35 PIPE (FILL SLOPE BENCH DRAIN)	8,616	LF
6" SOLID PVC SDR 35 PIPE (BENCH DRAIN COLLECTOR)	550	LF
AASHTO #57 (BENCH DRAIN BEDDING)	1,440	TONS
PAD HEAVY DUTY #667 STONE (6")	1,070	CY
PAD HEAVY DUTY #1 STONE (14")	2,490	CY
PAD STANDARD #467 STONE (4")	2,770	CY
PAD STANDARD #1 STONE (12")	8,295	CY
ACCESS ROAD #667 STONE (6")	290	CY
ACCESS ROAD #1 STONE (12")	965	CY
PAD CLASS 2 GEOTEXTILE	15,840	SY
ACCESS ROAD CLASS 2 GEOTEXTILE	1,309	SY
EARTHWORK VOLUMES CUT	57,625	CY
EARTHWORK VOLUMES FILL	95,065	CY
WELL CELLARS	1	EA
GEOGRID (WRAGRID 5XT OR EQUIVALENT)	3440	SY
CLEARING AND GRUBBING	1.6	AC

APPROVED WVDEP OOG
WV 8/6/2018

Duane Harris
5-3-21

COORDINATES:
PAD 1 SITE ENTRANCE (NAD 83)
LAT: 39.682481
LONG: -80.638975

CENTER OF PAD 1 (NAD 83)
LAT: 39.682509
LONG: -80.639728

STAGING PAD SITE ENTRANCE (NAD 83)
LAT: 39.683182
LONG: -80.637249

CENTER OF STAGING PAD (NAD 83)
LAT: 39.683770
LONG: -80.638525

SWN PAD A ONLY - 6.61 ACRES
SWN A STAGING PAD ONLY - 6.16 ACRES
SWN PAD A TOTAL PROJECT - 12.77 ACRES

LANDS N/F OF SWN PRODUCTION COMPANY, LLC
TMP # 12-10-0029

BICKERSTAFF, JACOB AND ANNA
TMP # 12-10-0029.0002
LIMIT OF DISTURBANCE = 13.16 ACRES

DWG. NO	DRAWING DESCRIPTION
C.001	COVER SHEET
C.002 - C.003	EVACUATION ROUTE / PREVAILING WINDS
C.101 - C.102	EXISTING CONDITIONS
C.201 - C.202	GRADING AND EROSION CONTROL PLANS
C.301 - C.302	RECLAMATION PLANS
C.401 - C.411	SLOPE STABILIZATION DETAILS & PROFILES
C.501 - C.523	DETAILS



NORTH

APPROVED
MODIFICATION
WVDEP 00G
WBS 12/11/2019

PROPOSED FRESH WATER AST
10,753 BARRELS
(81' 2" DIAMETER INSIDE)

- SWN A WTZ PAD
- | | API #'S: |
|-----------------|--------------|
| -SWN A WTZ 105H | - 4710303250 |
| -SWN A WTZ 205H | - 4710303251 |
| -SWN A WTZ 305H | - 4710303212 |
| -SWN A WTZ 405H | - 4710303213 |
| -SWN A WTZ 3H | - 4710303232 |
| -SWN A WTZ 5H | - 4710303233 |

EXISTING SWN A PAD

C.R. 89 PROCTOR CREEK RD.

DMH 12/6/19

SWN
Southwestern Energy®

$\frac{R^2}{A} \rightarrow V^+$

NOTE

PROPOSED AST WILL TEMPORARILY STORE FRESHWATER. THE AST WILL HOLD A MAXIMUM OF 10,753 BARRELS (451,626 GALLONS) OF WATER.

SCALE IN FEET



Civil & Environmental Consultants, Inc.
600 Marketplace Ave • Suite 200 • Bridgeport, WV 26330
Ph: 304.933.3119 • Fax: 304.933.3327
www.cecinc.com

SWN PRODUCTION COMPANY, LLC
SWN A PAD
PROCTOR DISTRICT
WETZEL COUNTY, WEST VIRGINIA
SWN A PAD
AST MODIFICATION

DRAWN BY: HZW	CHECKED BY: JMP	APPROVED BY: MWF	FIGURE NO.: 1
DATE: December 03, 2019	DWG SCALE: 1"=60'	PROJECT NO: 185-629	