



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

Thursday, April 7, 2022
WELL WORK PERMIT
Horizontal 6A / New Drill

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

Re: Permit approval for TIMMY MINCH OHI 8H
47-069-00335-00-00

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

A blue ink signature of James A. Martin, Chief, is written over the printed name and title.

Operator's Well Number: TIMMY MINCH OHI 8H
Farm Name: TIMMY B MINCH & AMY L
U.S. WELL NUMBER: 47-069-00335-00-00
Horizontal 6A New Drill
Date Issued: 4/7/2022

Promoting a healthy environment.

04/08/2022

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.

04/08/2022

ck#
1064089
\$15750⁰⁰
ckdt: 2/22/22

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 069-Ohio 6-Triadelphia 374-Wheeling
Operator ID County District Quadrangle

2) Operator's Well Number: Timmy Minch OHI 8H Well Pad Name: Timmy Minch OHI

3) Farm Name/Surface Owner: Timmy B. Minch & Amy L. Minch Public Road Access: Browns Run Road

4) Elevation, current ground: 1208' Elevation, proposed post-construction: 1208'

5) Well Type (a) Gas Oil Underground Storage
Other

(b) If Gas Shallow Deep
Horizontal

6) Existing Pad: Yes or No Yes *MJK 2/23/2022*

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target Formation- Marcellus, Down-Dip well to the South, Target Top TVD- 6238', Target Base TVD- 6297', Anticipated Thickness- 59', Associated Pressure- 4093

8) Proposed Total Vertical Depth: 6275'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 23592'

11) Proposed Horizontal Leg Length: 13194.25'

12) Approximate Fresh Water Strata Depths: 306'

13) Method to Determine Fresh Water Depths: Salinity Profile

14) Approximate Saltwater Depths: 638'- Salinity Profile

15) Approximate Coal Seam Depths: 470'

16) Approximate Depth to Possible Void (coal mine, karst, other): Possible Void 470'

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

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

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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#	100'	100'	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	530'	530'	587 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	1900'	1900'	676 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	23592'	23592'	Tail 4482sx/ 100 In/ice Intermediate
Tubing							
Liners							

MGK 2/23/2022

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

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 unites, 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): 13

22) Area to be disturbed for well pad only, less access road (acres): 4.8

23) Describe centralizer placement for each casing string:

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

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

See Attachment ***

25) Proposed borehole conditioning procedures:

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

*Note: Attach additional sheets as needed.

CEMENT ADDITIVES

INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE (FRESHWATER) <i>up to 3%</i>	XXXXXXXXXX	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION <i>up to 3%</i>	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	

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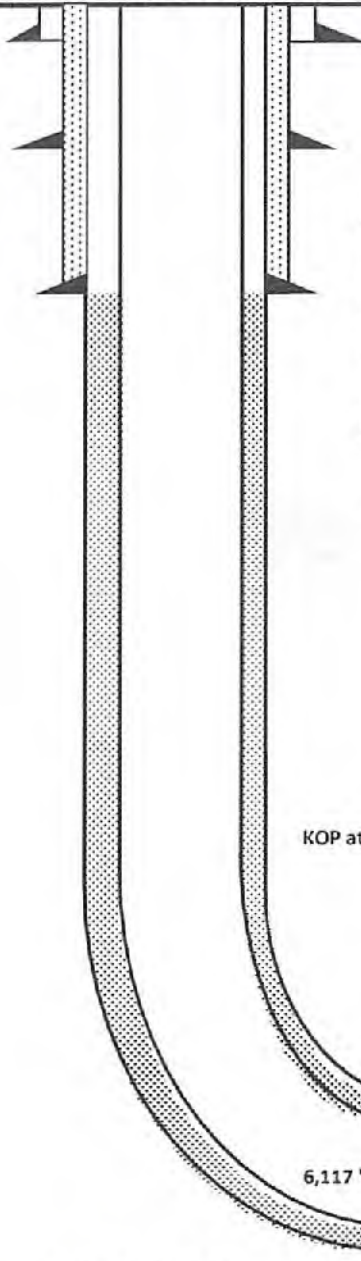
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Southwestern Energy Company

Proposed Drilling Program

Well: **TIMMY MINCH OHI 8**
 Field: **PANHANDLE FIELD WET**
 County: **OHIO**
 SHL: **40.0853** Latitude **-80.6462** Longitude
 BHL: **40.0416** Latitude **-80.6238** Longitude
 KB Elev: **1,234 ft MSL**

Re-entry Rig: **TBD**
 Prospect: **Marcellus Shale**
 State: **WV**
 KB: **26 ft AGL**
 GL Elev: **1,208 ft MSL**



COAL VOID AT: 470' TVD

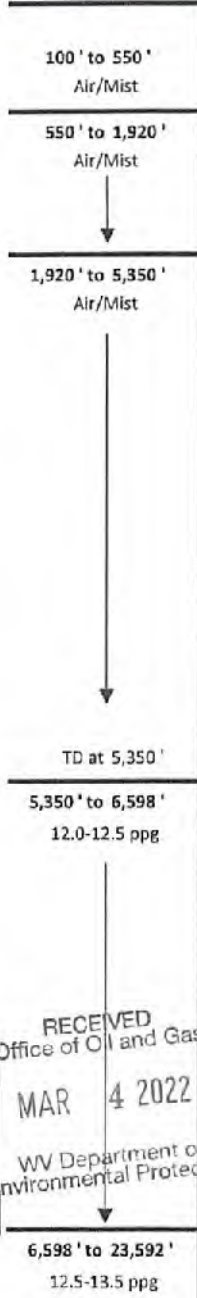
PROD TOC Lead @ 2,100' MD
PROD TOC Tail @ 5,250' MD

TUBULAR DETAIL

Casing String	Casing Size (in)	Weight (Min)	Grade (Min)	Planned Interval	
				From	To
Conductor	20	94.0 #	J-55	0'	100'
Surface/Coal	13.375	54.4 #	J-55	0'	530'
Intermediate	9.625	36.0 #	J-55	0'	1,900'
Production	5.5	20.0 #	P-110 HP	0'	23,592'

CEMENT DETAIL

	Sacks	Class	Density
Conductor	127	A	19.3
Surface	587	A	15.6
Intermediate	676	A	15.6
Production	4486	A	14.5-15.0



KOP at 5,350' MD

Freshwater Depth - 306' TVD
Coal Void Depth - 470' TVD
Saltwater Depth - 638' TVD
TVD - 6,275'
TMD - 23,592'

6,117' Target Center

TD at 23,592' MD
6,275' TVD

EOB at 6,598' MD

SHL Onondaga 6,139' TVD

Onondaga 6,297' TVD

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6,598' to 23,592'
12.5-13.5 ppg

Created by: Dicky Hall on 02/17/2022

MGK 2/23/2022

March 2, 2022

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

RE: Proposed New Well: Timmy Minch OHI 8H

Dear Mr. Brewer:

SWN has reviewed the area of the above mentioned well and discovered no shallow wells within 500' of the lateral. This well is situated on the Minch's property, in Triadelphia District, Ohio County, West Virginia.

If you have any questions or desire additional information, please me at 304-884-1613.

Thank you.

Sincerely,



Brittany Woody
Senior Regulatory Analyst
Southwestern Energy Production Company, LLC

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WW-9
(4/16)

API Number 47 - 069 - _____
Operator's Well No. Timmy Minch OH# 8H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name SWN Production Co., LLC OP Code 494512924

Watershed (HUC 10) Browns Run of Peters Run of Wheeling Creek Quadrangle Wheeling

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes:

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

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

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

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

Additives to be used in drilling medium? Attachment 3B

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

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

-Landfill or offsite name/permit number? Meadowfill SWF- 1032, Short Creek SWF-1034, Carbon Limestone MSWL018781, Wetzel County 1021 Apex Sanitary Landfill U6-08438, 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

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Subscribed and sworn before me this 17th day of February, 2022

Reid Croft

Notary Public

My commission expires 8/21/2024



SWN Production Co., LLC

Proposed Revegetation Treatment: Acres Disturbed 13 Prevegetation pH _____

Lime as determined by pH test min.2 Tons/acre or to correct to pH 4.8

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

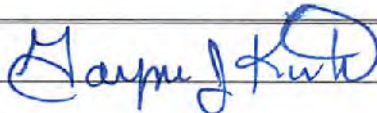
Attachment 3C

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____



Comments: _____

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Title: Oil & Gas Inspector

Date: 2/23/2022

Field Reviewed? () Yes () No

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, SOB M)

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.

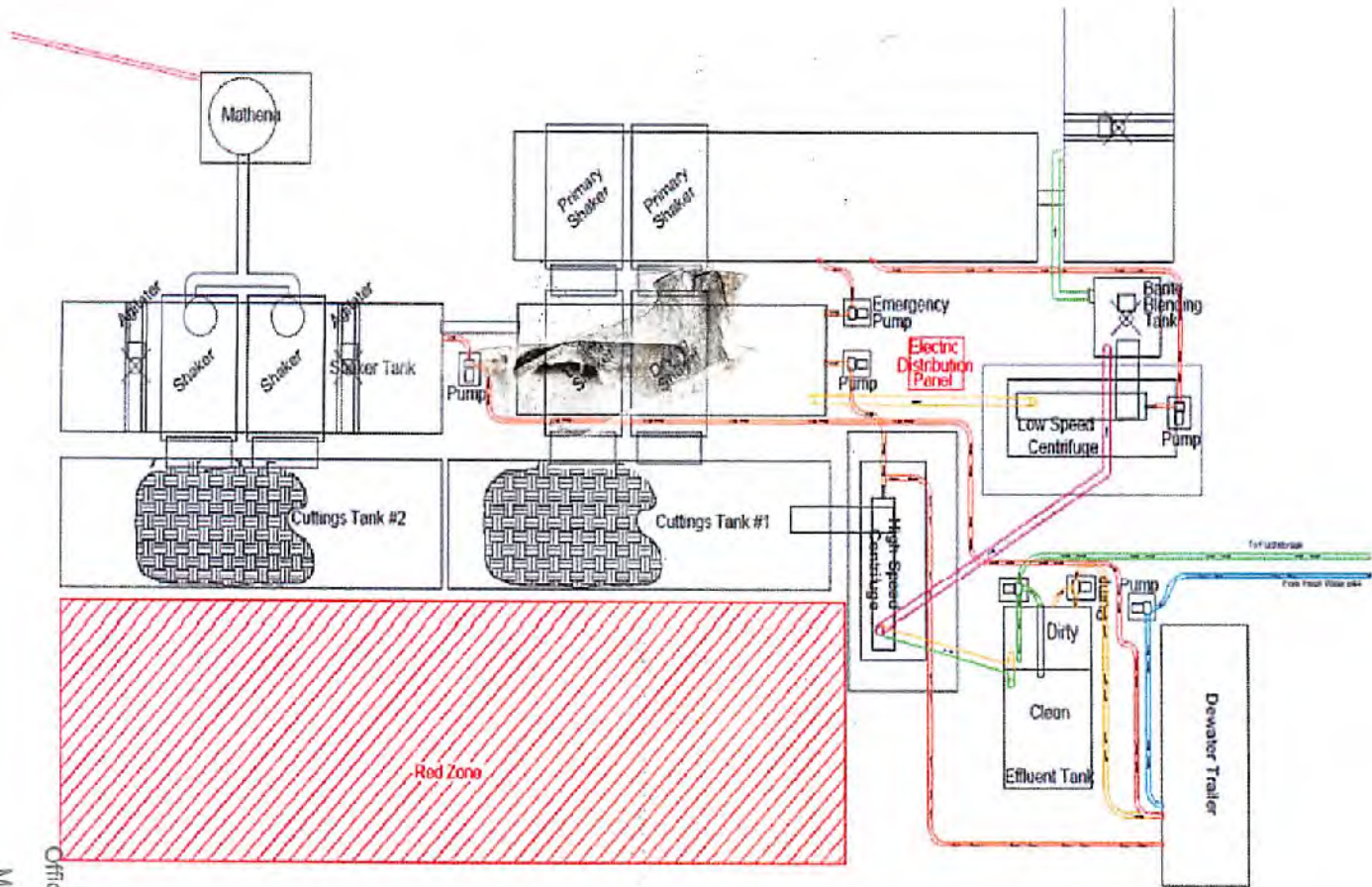
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Solids Control Layout



EXAMPLE SCHEMATIC FOR CLOSED LOOP SOLIDS CONTROL SYSTEM

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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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WVD Seeding Specification

R² → 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 innoculated 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	

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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

API NO. 47-XXX-XXXXX
WELL NAME: Timmy Minch OHI 8H
Wheeling QUAD
Triadelphia DISTRICT
OHIO COUNTY, WEST VIRGINIA

Submitted by:

Name: Brittany Woody

Date: 2/8/2022

Title: Senior Regulatory Analyst

SWN Production Co., LLC

Approved by:

Name: _____

Date: _____

Title: _____

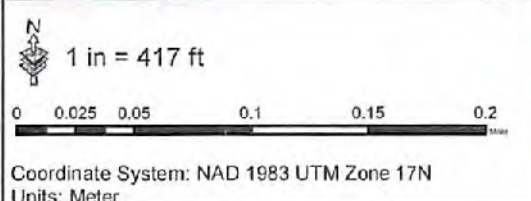
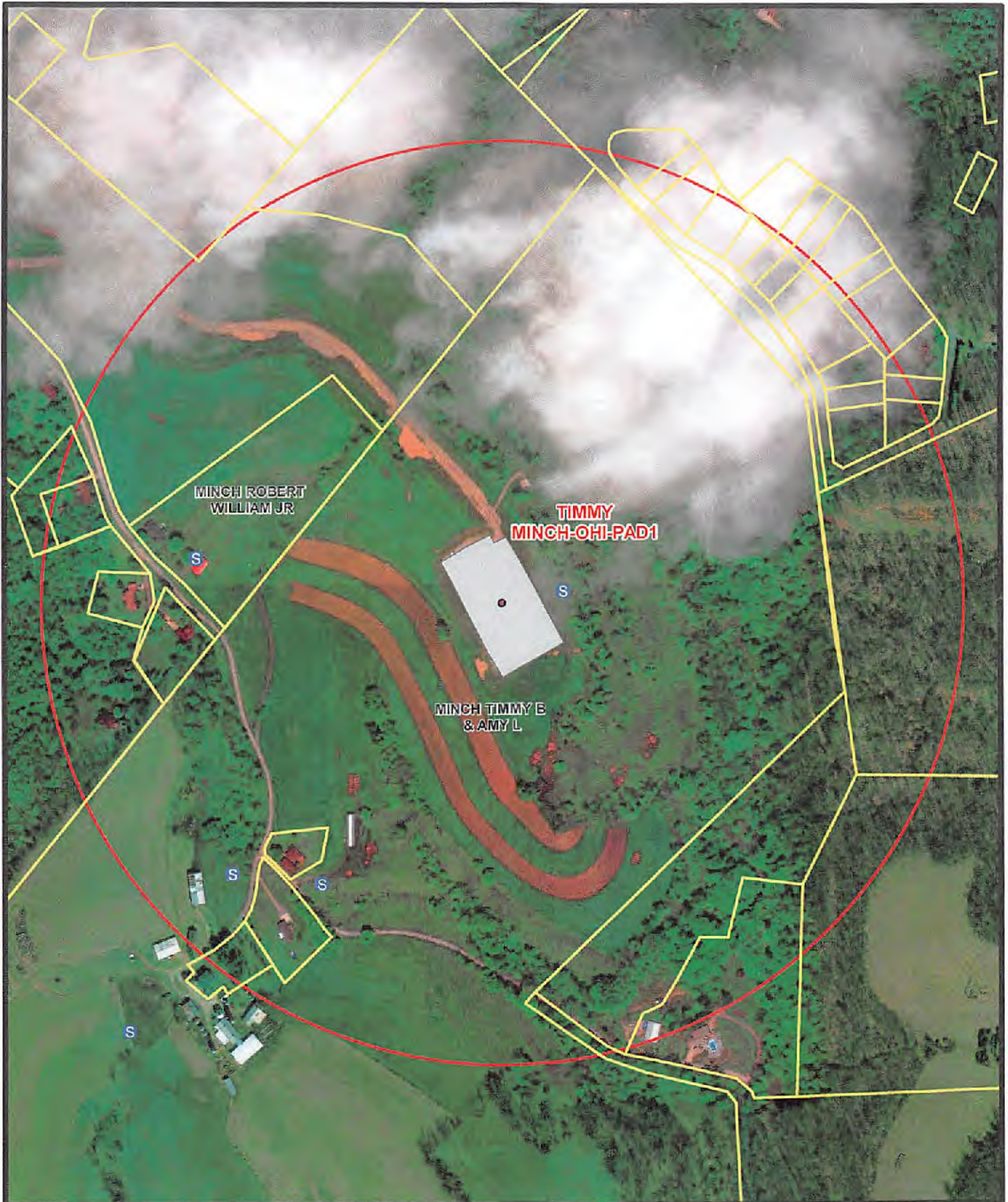
Approved by:

Name: _____

Date: _____

Title: _____

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Office of Oil and Gas
MAR 4 2022
WV Department of
Environmental Protection



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

Water Purveyor Map
Well Pad: Timmy Minch
County: OH

R⁺ V⁺
 Southwestern Energy

04/08/2022

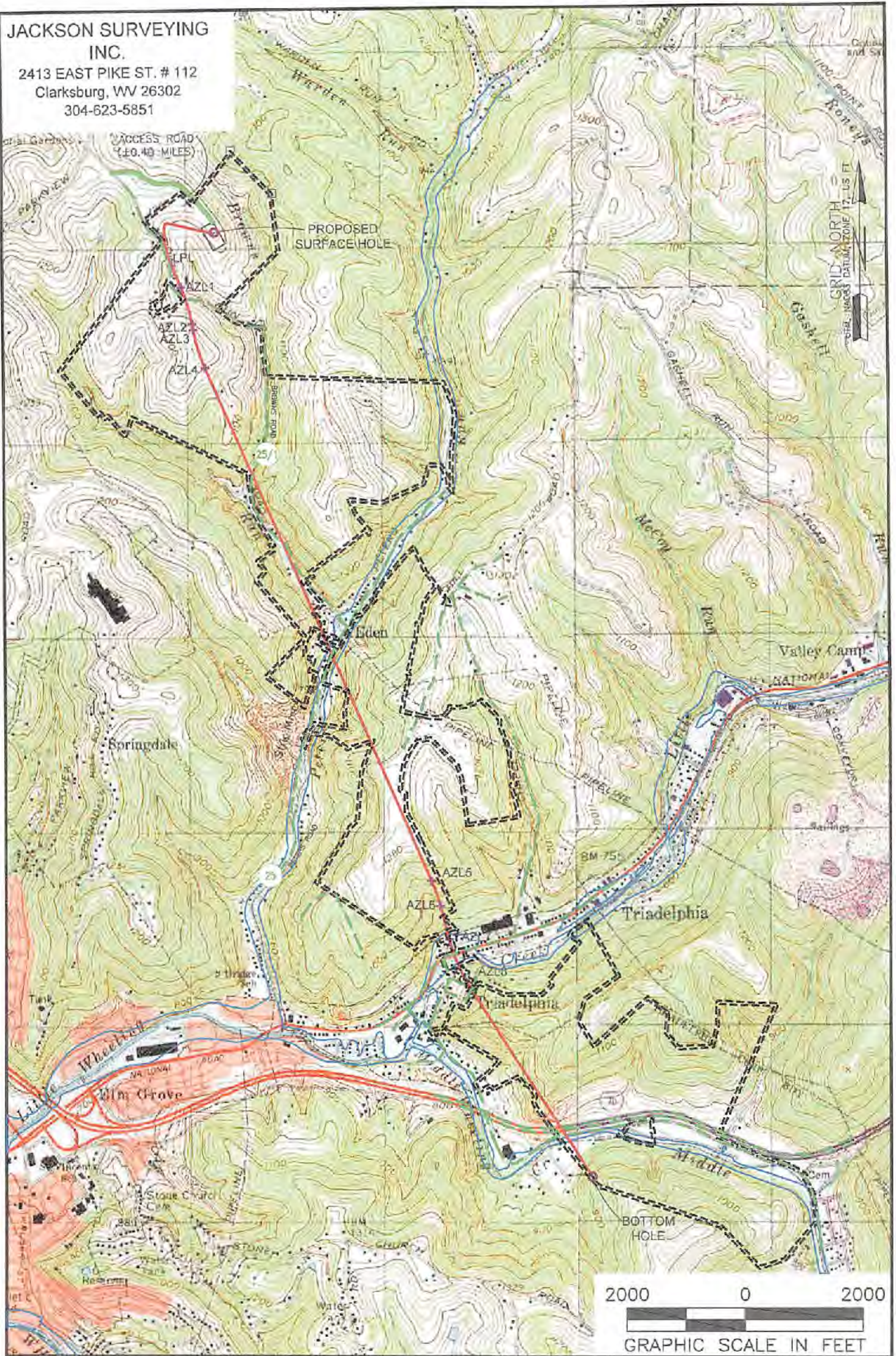
Date: 2/14/2022 Author: willisb

Coordinates: 40.085206, -80.646233

Document Path: K:\EandPW\O\Team Data\Regulatory\Bobby Willis\Maps\Water_Purveyor_Large_Landowner_TimmyMinchPad.mxd

**JACKSON SURVEYING
INC.**

2413 EAST PIKE ST. # 112
Clarksburg, WV 26302
304-623-5851



NOTES ON SURVEY

1. SURFACE AND REVENUE 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

04/08/2022

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: TIMMY MINCH OHI	WELL # 8H	SERIAL #
ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200, MORGANTOWN, WV 26508	COUNTY - CODE OHIO - 069	DISTRICT; TRIADELPHIA	
SURFACE OWNER: TIMMY B. MINCH & AMY L. MINCH	USGS 7 1/2 QUADRANGLE MAP NAME WHEELING, WV	API # 47-069-	

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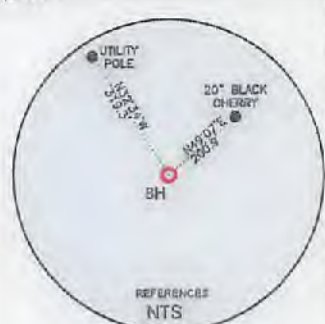
Latitude: 40°07'30" SURFACE HOLE 5937'
Latitude: 40°02'30" BOTTOM HOLE 11,334'

Longitude: 80°35'00" BOTTOM HOLE 39'

SURFACE HOLE 14446'
Longitude: 80°37'30"

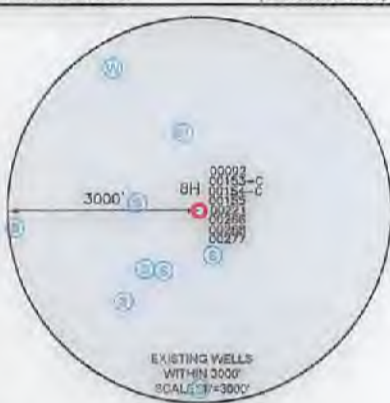
SURFACE HOLE LOCATION (SHL):	
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,437,289.664 EASTING: 530,160.049	
LANDING POINT LOCATION (LPL):	
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,437,121.003 EASTING: 529,938.885	
AZIMUTH POINT LOCATION-1 (AZL1):	
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,437,008.824 EASTING: 529,988.501	
AZIMUTH POINT LOCATION-2 (AZL2):	AZIMUTH POINT LOCATION-6 (AZL6):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,436,819.360 EASTING: 530,042.624	UTM (NAD83, ZONE 17, METERS): NORTHING: 4,433,822.981 EASTING: 531,309.595
AZIMUTH POINT LOCATION-3 (AZL3):	AZIMUTH POINT LOCATION-7 (AZL7):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,436,789.355 EASTING: 530,047.916	UTM (NAD83, ZONE 17, METERS): NORTHING: 4,433,652.000 EASTING: 531,354.090
AZIMUTH POINT LOCATION-4 (AZL4):	AZIMUTH POINT LOCATION-8 (AZL8):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,436,590.436 EASTING: 530,108.117	UTM (NAD83, ZONE 17, METERS): NORTHING: 4,433,395.062 EASTING: 531,467.668
AZIMUTH POINT LOCATION-5 (AZL5):	BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,433,953.655 EASTING: 531,264.265	UTM (NAD83, ZONE 17, METERS): NORTHING: 4,432,438.061 EASTING: 532,091.744

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



LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 11°48'54" E	1406.35'	SHL TO LANDMARK	FD. 5/8" REBAR
L2	N 56°31'08" E	1183.16'	SHL TO LANDMARK	FD. 5/8" REBAR
L4	S 22°59'56" E	399.62'	LPL TO AZL1	
L6	S 10°00'05" E	99.96'	AZL2 TO AZL3	
L8	N 14°35'12" E	578.64'	AZL6 TO AZL7	

LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 52°40'14" W	912.52'	1576.88'	SHL TO LP
L5	S 16°30'01" E	648.94'	849.66'	AZL1 TO AZL2
L7	S 16°50'17" E	681.85'	683.44'	AZL3 TO AZL4
L6	S 19°07'53" E	453.78'	454.24'	AZL5 TO AZL6
L10	S 23°50'51" E	921.66'	926.64'	AZL7 TO AZL8

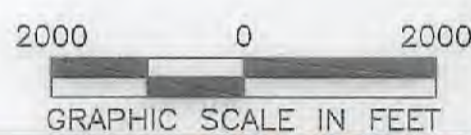


- WELL RESTRICTIONS**
- NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
 - NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
 - WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
 - PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
 - NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
 - NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD. LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

- NOTES ON SURVEY**
- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
 - THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
 - ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

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. 708 *David L Jackson*



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

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

MINIMUM DEGREE OF ACCURACY:	1/200
PROVEN SOURCE OF ELEVATION:	SURVEY GRADE GPS (NAVD 88, US FT)

COMPANY:	SWN Production Company, LLC		
OPERATOR'S WELL #:	TIMMY MINCH OHI 8H		
API WELL #:	47	069	00335
	STATE	COUNTY	PERMIT

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

WATERSHED: BROWNS RUN OF PETERS RUN OF WHEELING CREEK (HUC-10) ELEVATION: 1208.3'

DISTRICT: TRIADELPHIA COUNTY: OHIO QUADRANGLE: WHEELING, WV

SURFACE OWNER: TIMMY B. MINCH & AMY L. MINCH ACREAGE: ±254.38

OIL & GAS ROYALTY OWNER: TIMMY B. MINCH & AMY L. MINCH ACREAGE: ±254.38

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

CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,275 TVD 23,592 TMD

04/08/2022

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	DESIGNATED AGENT: BRITTANY WOODY
ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200	ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508	CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND:	— SURVEYED BOUNDARY
● PROPOSED SURFACE HOLE / BOTTOM HOLE	— DRILLING UNIT
☀ EXISTING / PRODUCING WELLHEAD	— LEASE BOUNDARY
LPL* LANDING POINT LOCATION	— PROPOSED PATH
⊕ EXISTING WATER WELL	AZL* AZIMUTH POINT LOCATION
⊙ EXISTING SPRING	

REVISIONS:	DATE: 02-18-2022
	DRAWN BY: N. MANO
	SCALE: 1" = 2000'
	DRAWING NO:
	WELL LOCATION PLAT

**JACKSON SURVEYING
INC.**

2413 EAST PIKE ST. # 112
Clarksburg, WV 26302
304-623-5851



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P.S. 708 *David L Jackson*

04/08/2022

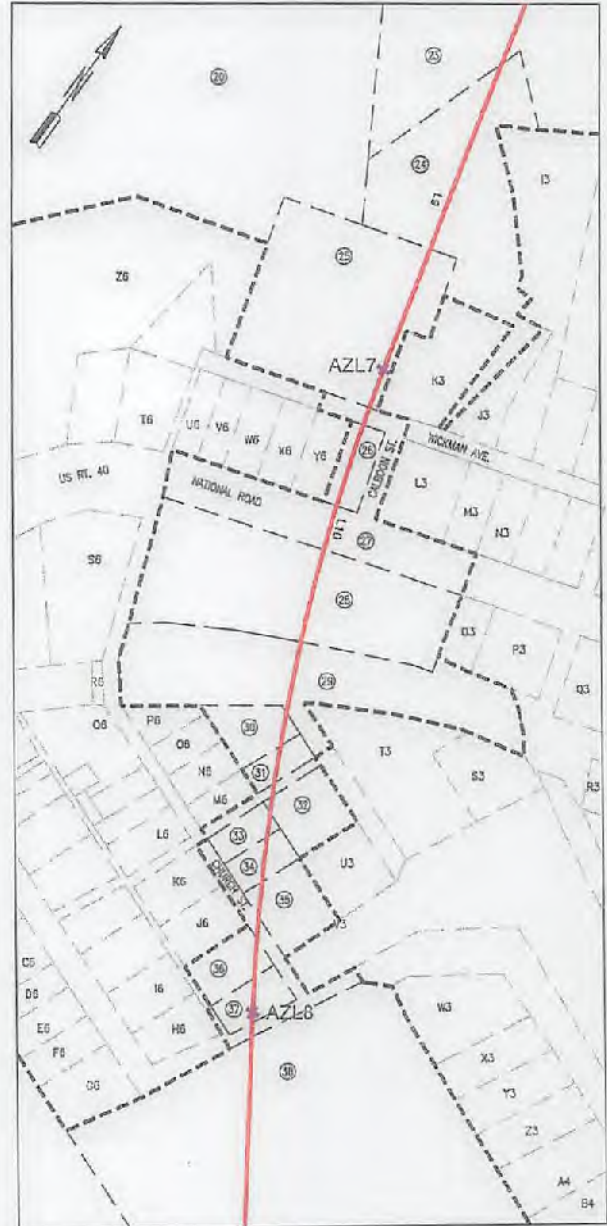
REVISIONS:	COMPANY:	SWN Production Company, LLC		SWN <i>Rt. 1/2 V+0</i> Production Company™	
	OPERATOR'S	TIMMY MINCH OHI	API #	DATE: 02-18-2022	
	WELL #:	8H	47-069-00335	DRAWN BY: N. MANO	
	DISTRICT:	COUNTY:	STATE:	SCALE: N/A	
	TRIADELPHIA	OHIO	WV	DRAWING NO:	
				WELL LOCATION PLAT 2	

JACKSON SURVEYING
 INC.
 2413 EAST PIKE ST. # 112
 Clarksburg, WV 26302
 304-623-5851

DETAIL "A"



DETAIL "B"



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. 708 *David L Jackson*

04/08/2022

REVISIONS:	COMPANY:				
	OPERATOR'S			DATE: 02-18-2022	
	WELL #:			DRAWN BY: N. MANO	
	DISTRICT:			SCALE: N/A	
	COUNTY:			DRAWING NO:	
	STATE:			WELL LOCATION PLAT 3	

**JACKSON SURVEYING
INC.**



2413 EAST PIKE ST. # 112
Clarksburg, WV 26302
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WELL BORE TRACTS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	MINCH TIMMY B & AMY L (S/R)	6-T2-18
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	MINCH ROBERT WILLIAM JR MINCH BARBARA JEAN (S)	4-R17-57.2
3	CALVERT GROVE ANDREW (S)	4-R17-62
4	JUNIPER LODGE INC (S)	6-T2-19
5	ORUM WILLIAM A & CYNTHIA E (S)	6-T2-19.1
6	DICKERSON CYNTHIA ANN ET AL (S)	6-T2-22
7	ORUM, M D 6/9 INT, W B ORUM 1/9 K D ORUM 1/9 & J E ORUM 1/9 (S)	6-T7-135.1
8	FRITTER RALPH LEE II FRITTER MELISSA EDITH (S)	6-T7-111
9	BAUER HOLLY K & PAUL M (S)	6-T7-112.1
10	AUBER JO ANN LLC (S)	6-T7-112.4
11	AUBER SHARON ANN (S)	6-T7-112.3
12	MILLER JAMES D JR CAROLINE KUHAR (S)	6-T7-112
13	MILLER JAMES D JR CAROLINE KUHAR (S)	6-T7G-34
14	STEPHENS JEFFREY R (S)	6-T7G-22
15	RIGGLE THOMAS LAUBER CHRISTINA M (S)	6-T7G-28.1
15	BUFFINGTON BETTY (S)	6-T7G-25
17	BUFFINGTON BETTY (S)	6-T7G-25.1
18	CAGE WM C & V B (S)	6-T7G-27
19	MOORE STEVEN A & LISA K (S)	6-T7-148.2
20	LUCKY FARMS LLC (S)	6-T7-163
21	CRISWELL JOHN T (S)	6-T7-150.1
22	GEORGE GREGORY J & JENNIFER S (S)	6-T7-163.19
23	MIDDLE CREEK GARAGE INC (S)	6-T7-165
24	HUTCHISON AMY JO (S)	7-TW1-1.1
25	APOSTOLEC NANCY L (S)	7-TW1-3.1
26	KNOLLINGER KATHRYN M (S)	7-TW4-9
27	WV DEPARTMENT OF TRANSPORTATION (S)	RL 40
28	MIDDLE CREEK GARAGE INC (S)	7-TW4-91
29	MIDDLE CREEK GARAGE INC (S)	7-TW2-23
30	FIRST CHURCH OF GOD TRUSTEES (S)	7-TW4-100
31	WHALEY GEORGIA (S)	7-TW4-101
32	WHALEY GEORGIA ANN (S)	7-TW4-102
33	WHALEY GEORGIA (S)	7-TW4-108
34	SMITH VELMA ET AL (S)	7-TW4-109
35	SHAW JAMES & MARY ANN (S)	7-TW4-110
36	SHAW JAMES E (S)	7-TW4-116
37	SHAW JAMES E (S)	7-TW5-1
38	OHIO COUNTY COMMISSION (S)	6-T12-53
39	MIDTOWN MOBILE HOMES INC (1/2) TEMPLIN TIM & PATRICIA (1/2) (S)	7-TW5-18
40	MOUNTAIN ESTATE REALTY LLC (S)	7-TW5-14
41	CARUSO JOSEPH (S)	7-TW5-23
42	OHIO COUNTY COMMISSION (S)	7-TW10-1
43	OHIO VALLEY IND & BUS DEV CORP (S)	6-T13-26

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	MINCH TIMMY B & AMY L	4-R17-58.1
B	MINCH ROBERT WILLIAM JR MINCH HERBERT PAUL	4-R17-57
C	NUTTING G OGDEN TRUST	4-R17-57.1
D	MEMORI HOME & GARDEN LLC	4-R17-H-1
E	HALLEULA BERNICE	4-R18-3
F	POCKL RONALD J	6-T2-20.1
G	WOJCZOWSKI MORGAN A	6-T2-20
H	HATCHER EDWARD A	6-T2-21
I	NEUMAN MICHAEL C & COCHRAN SARAH	6-T2-25
J	LAUDERMILT GARY E & M A	6-T2-25.1
K	LAUDERMILT MARY A & G E	6-T2-26
L	CROFT REVOCABLE TRUST	6-T7-129
M	JONES LAMBERT	6-T2-24.1
N	CROFT SAMUEL E & ROSE M TRUST CROFT SAMUEL E & ROSE M; TEES	6-T2-24
O	CROFT SAMUEL & ROSE	6-T2-24.2
P	SAPORITO MICHAEL A & RAE L	6-T7-136
Q	POWELL JAMES E JR & MARY A-LE POWELL J; POWELL M; BRAMAN M	6-T7-137
R	POWELL JAMES E JR & MARY A-LE POWELL J; POWELL M; BRAMAN M	6-T7-180
S	STRADA JEFFREY M & LINDA F	6-T7C-11.1
T	STRADA JEFFREY M & LINDA F	6-T7C-11
U	HARVEY CHASE M	6-T7C-12
V	WHEELING NATURAL GAS CO	6-T7-112.5
W	EDGE ALICE M - TOD	6-T7G-20
X	KNAPP DAVID A & M J G	6-T7G-21
Y	STEPHENS JEFFREY R	6-T7G-22.1
Z	WARD JODY & SCOTT BEVERLY	6-T7G-23
A2	WARD JODY & SCOTT BEVERLY	6-T7G-24
B2	WENZEL REGIS G & J R	6-T7G-4
C2	HEATH JAMES L	6-T7G-3
D2	HARRIS DONALD N & J A	6-T7-147.1
E2	HARRIS DONALD JEFFERY	6-T7-147
F2	SCHMID DAVID J & E T	6-T7-146
G2	PAPADIMITRIOU KATHERINE M	6-T7-145
H2	FIGARETTI KATHERINE M ANTHONY F	6-T7-143.1
I2	FIGARETTI KATHERINE M & ANTHONY F	6-T7-143
J2	LAUDERMILT MARY ANN & GARY E SR	6-T7-142
K2	COREY MICHAEL & TIERRA	6-T7-138
L2	HEARN LYLE & KIMBERLIE	6-T7-173
M2	LUCKY FARMS LLC	6-T7-163
N2	HANSON AUGUST J & LISA M	6-T7-163.20
O2	GALBREATH ROBERT W & DEBRA J	6-T7-163.11
P2	GRIFFIN DANIEL L & SARA C	6-T7-163.5
Q2	KENT ROGER L JR & MELINDA J	6-T7-163.15
R2	KENT ROGER L JR AND MELINDA J	6-T7-163.18
S2	FULLERTON TODD	6-T7-163.16
T2	TUCKER ROBERT M & REBECCA E	6-T7-163.12
U2	GAUDINO GREGORY A & ANNETTE M	6-T7-163.13
V2	KHALIL BUSAINA	6-T7-163.7
W2	KHALIL BUSAINA	6-T7-163.6

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
X2	GEORGE GREGORY P JR	6-T7-163.21
Y2	SIMMS JAMES	6-T7-163.17
Z2	BLISS CHARLIE A SR & MARY E	6-T7-164
A3	BLISS CHARLIE A SR & MARY E	6-T7-164.1
B3	ABUNDANT LIFE BAPTIST CHURCH ET AL	6-T7-172.12
C3	ABUNDANT LIFE BAPTIST CHURCH ET AL	6-T7-172.14
D3	BRINKMEIER WILLIAM JAY	6-T7-165.1
E3	EDGE EDWARD M & CHRISTINE B	6-T7-165
F3	LUCKY FARMS KENNEL LLC	6-T7-163.22
G3	OHIO VALLEY IND & BUS DEV CORP	6-T7-166.1
H3	KAVANAS JERRY (EST) & ANN M	7-TW4-5
I3	WILLIAMS RONNIE L	7-TW4-1
J3	BISHOP WILLIAM D KINDELBERGER CAROL B	7-TW4-2
K3	HUTCHISON AMY JO	7-TW1-1.1
L3	KINDELBERGER MARK & C B	7-TW4-10
M3	HAMILTON D L (LIFE) AND GARY L	7-TW4-11
N3	COOKE EDWIN R & NICKI L	7-TW4-12
O3	BOWMAN BARBARA TRUSTEE B J HOWE FAMILY TRUST 2014	7-TW4-90
P3	BLEIFUS TIRE SERVICES INC	7-TW4-89
Q3	BLEIFUS TIRE SERVICES INC	7-TW4-88
R3	BLEIFUS TIRE SERVICES INC	7-TW4-92
S3	SHAW JAMES AND MARY ANN	7-TW4-98
T3	SHAW JAMES E	7-TW4-99
U3	SHAW JAMES AND MARY ANN	7-TW4-103
V3	STARKEY OPHIE E & R S	7-TW4-124
W3	H3 LLC	7-TW4-117
X3	MIDTOWN MOBILE HOMES INC (1/2) TEMPLIN TIM & PATRICIA (1/2)	7-TW4-118
Y3	CRESAP CHAS L & J J	7-TW4-119
Z3	MIDTOWN MOBILE HOMES INC (1/2) TEMPLIN TIM & PATRICIA (1/2)	7-TW4-120
A4	MIDTOWN MOBILE HOMES INC (1/2) TEMPLIN TIM & PATRICIA (1/2)	7-TW4-121
B4	MIDTOWN MOBILE HOMES INC TEMPLIN TIM & PATRICIA A	7-TW4-125
C4	MIDTOWN MOBILE HOMES INC (1/2) TEMPLIN TIM & PATRICIA (1/2)	7-TW4-122
D4	MIDTOWN MOBILE HOMES INC (1/2) TEMPLIN TIM & PATRICIA (1/2)	7-TW4-128
E4	MIDTOWN MOBILE HOMES INC (1/2) TEMPLIN TIM & PATRICIA (1/2)	7-TW4-129
F4	KNOLLINGER KATHRYN M	7-TW8-75
G4	PARSONS JAMES	6-T7-182
H4	ROBINSON AUGUST FRANKLIN	6-T8-43
I4	OHIO COUNTY DEVELOPMENT AUTHORITY	7-TW5-24.1
J4	OHIO COUNTY DEVELOPMENT AUTHORITY	6-T8-40.5
K4	OHIO COUNTY DEVL'P AUTHORITY	6-T8-40.11
L4	JEWISH MEM PARK ASSOC TEMPLE SHALOM TTEE	7-TW12-13.1
M4	CONGREGATION USHEM SHOMAYIM	7-TW12-13
N4	CLARK KRUIETTA D & BOLINGER MARNA LYNN E	7-TW12-1
O4	RUSSELL BRADLEY A	7-TW12-2
P4	RUSSELL BRADLEY A	7-TW12-3
Q4	KNOLLINGER DOUGLAS W	7-TW12-4
R4	MORRIS ALFRED E & D M	7-TW12-5
S4	MILLER BRADLEY R & DONNA L	7-TW12-6

04/08/2022

REVISIONS:	COMPANY:	 	
	OPERATOR'S	TIMMY MINCH OHI	API #
	WELL #:	8H	47-069-00335
	DISTRICT:	TRIADELPHIA	STATE:
		OHIO	WV
			DATE: 02-18-2022
			DRAWN BY: N. MANO
			SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 4



**JACKSON SURVEYING
INC.**

2413 EAST PIKE ST. # 112
Clarksburg, WV 26302
304-623-5851

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
T4	NOLAN JOHN W SR ETAL	6-T13-2.2
U4	MIDDLE CREEK GARAGE INC	6-T13-3
V4	CLARK BRADLEY W	6-T12-44
W4	BLAKE PAUL W & VIRGINIA MEMORIAL FOUNDATION	6-T12-38.1
X4	MESTROVIC JERRY J & J L	6-T12-41
Y4	STEIN EDWARD H II & M M	6-T12-43
Z4	POGGI FLOYD J	7-TW6-4
A5	BOARD OF EDUCATION	7-TW6-3
B5	SWEETWATER STATION LLC	6-T13-26.1
C5	WILHELM JESSICA E	7-TW6-2
D5	SHEARER BILLY J & J L	7-TW5-21
E5	REVEN PAULA JANE	7-TW5-20.1
F5	KELLY TRAVIS M	7-TW5-20
G5	WEST VIRGINIA DEPART OF HWYS	7-TW2-57.1
H5	VESPA JOSEPH L	7-TW5-19
I5	WALTON RONALD E BLUM TAMMY J	7-TW5-18.1
J5	IRWIN GERALDINE A BIPPLUS JUANITA A	7-TW5-18
K5	HESS RUSSELL F & MARY ANN	7-TW5-17
L5	LAUDERMILT JEFFREY D AND ROBBINS STACIE L	7-TW5-15
M5	CHARLTON BRUCE W & DEBRA R	7-TW5-16.1
N5	CHARLTON BRUCE & DEBRA	7-TW5-16.2
O5	CHARLTON BRUCE & DEBRA	7-TW5-15
P5	LAWHORN E WILLIAM J & TAMARA	7-TW5-15.1
Q5	DANEHART JOANN	7-TW2-80
R5	MILLER JAMES D	7-TW2-79
S5	HENCO HOLDINGS LLC	7-TW2-88
T5	HENCO HOLDINGS LLC	7-TW2-73
U5	HENCO HOLDINGS LLC	7-TW2-98
V5	HENCO HOLDINGS LLC	7-TW2-72
W5	SHAW JOHN M	7-TW2-78
X5	SHAW JOHN M	7-TW2-77.1
Y5	BROWN A O	7-TW2-76
Z5	MIDTOWN MOBILE HOMES INC	7-TW2-75.1
A6	MIDTOWN MOBILE HOMES INC	7-TW2-75
B6	HEILMAN LAUREY ANN	7-TW2-74
C6	WISE MICHELLE	7-TW5-7
D6	MIDTOWN MOBILE HOMES INC (1/2) TEMPLIN TIM & PATRICIA (1/2)	7-TW5-9
E6	MIDTOWN MOBILE HOMES INC (1/2) TEMPLIN TIM & PATRICIA (1/2)	7-TW5-10
F6	MIDTOWN MOBILE HOMES INC (1/2) TEMPLIN TIM & PATRICIA (1/2)	7-TW5-11
G6	MIDTOWN MOBILE HOMES INC (1/2) TEMPLIN TIM & PATRICIA (1/2)	7-TW5-12
H6	SHAW JAMES E	7-TW5-2
I6	SHAW JAMES E	7-TW5-3
J6	SHAW JAMES E	7-TW4-115
K6	SHAW JAMES AND MARY ANN	7-TW4-114
L6	VARNER TAMMY; MCCARDLE AMANDA AND MCCARDLE MELINDA RAY	7-TW4-113
M6	WHALEY GEORGIA ANN	7-TW4-107
N6	WHALEY GEORGIA A	7-TW4-106
O6	WHALEY GEORGIA A H	7-TW4-105
P6	FIRST CHURCH OF GOD CAMP TWO	7-TW4-104
Q6	BIDDINGS SR. VOSES AND FIRST CHURCH OF GOD TRUSTEES	7-TW1-25
R6	MIDDLE CREEK GARAGE INC	7-TW2-23

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
S6	NIEHAUS LINDA D & ROBERT E	7-TW1-21
T6	COUSINS REALTY INC	7-TW1-7
U6	VERCELLOTTI GINO P	7-TW1-6
V6	KNOLLINGER KATHRYN M	7-TW1-5
W6	KNOLLINGER KATHRYN M	7-TW1-4
X6	KNOLLINGER KATHRYN M	7-TW1-3
Y6	KNOLLINGER WOODROW J REVOCABLE TRUST	7-TW1-2
Z6	MIDDLE CREEK GARAGE INC	7-TW1-9
A7	LUCKY FARMS LLC	6-T12-5
B7	OCH DANIEL F	6-T7-156
C7	FITZPATRICK CINDY L & THOMAS W	6-T7-153
D7	HULS TERESA GELLNER	6-T7-152
E7	RICKER WILLIAM R AND KATHY L	6-T7-150
F7	MILLER JAMES D JR & CAROLINE K	6-T7-147
G7	CRISWELL JOHN T	6-T7-149
H7	CRISWELL JOHN T	6-T7-148.1
I7	WALTER GARY R & SUSAN L	6-T7-148
J7	WALTER GARY & SUSAN	6-T7-148.4
K7	ALBERT R H & E R	6-T7-115
L7	RATHJEN DEBORAH L	6-T7-114
M7	RATHJEN DEBORAH L	6-T7-114.1
N7	BROEMSEN DOROTHY B	6-T7-113.1
O7	PAUL JULIA (LIFE ESTATE); ERIC C. MATTHEWS & K A GARDNER	6-T7-113
P7	MOORE MARLENE R	6-T7G-31
Q7	DEVAUL GERALD A	6-T7G-29.1
R7	DEVAUL GERALD A	6-T7G-29
S7	MILLER JAMES D CAROLINE KUHAR	6-T7G-32
T7	DAVIS LINDA M	6-T7G-13
U7	WADE WM W & LINDA J	6-T7G-15
V7	MILLER JAMES D JR CAROLINE KUHAR	6-T7G-33
W7	YE OLDE COUNTRY CHURCH OF FAITH TRUSTEES	6-T7-112.2
X7	MILLER JAMES D JR & CAROLINE K	6-T7-117.2
Y7	BRADEN FRANCES L IRREV TRUST	6-T7-97
Z7	DRUM WILLIAM A & CYNTHIA	6-T7-178
A8	WHEELING PARK COMMISSION	6-T7-95
B8	DANEHART LUANN AND ARTHUR W JR	6-T2-16.2
C8	VILLANOVA DONALD G AND BECKY J	6-T2-16
D8	MINCH TIMMY B & AMY L	4-R17-63
E8	MINCH DANNY AND GINA	4-R17-61
F8	VILLANOVA DONALD G AND BECKY J	6-T2-15.2
G8	FRANKE RODD A & LISA R	6-T2-15.3
H8	MONFRADI CHARLES AND DOLORES	4-R17-58

04/08/2022

REVISIONS:	COMPANY:	 	
	OPERATOR'S	TIMMY MINCH OHI	DATE: 02-18-2022
	WELL #:	8H	DRAWN BY: N. MANO
	DISTRICT:	TRIADELPHIA	SCALE: N/A
	COUNTY:	OHIO	DRAWING NO:
	STATE:	WV	WELL LOCATION PLAT 5

WW-6A1
(5/13)

Operator's Well No. TIMMY MINCH OHI 8H

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

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
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SEE EXHIBIT "A"

*Co-tenancy utilization - At least 7 mineral owners in tract and at least 75% of the royalty owners have consented to the lawful use or development of the oil or natural gas mineral property on the tract. The interests of the remaining co-tenants will be secured pursuant to the Co-tenancy Modernization and Majority Protection Act.


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

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

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

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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: GAVIN NADEAU, RPL
LANDMAN

STATE OF TEXAS
COUNTY OF DALLAS
OFFICE OF THE COUNTY CLERK

I, the undersigned, County Clerk of Dallas County, Texas, do hereby certify that the following is a true and correct copy of the original as filed in the County Clerk's Office on 11/17/2022.

(1) The original is a true and correct copy of the original as filed in the County Clerk's Office on 11/17/2022.

(2) The original is a true and correct copy of the original as filed in the County Clerk's Office on 11/17/2022.

Witness my hand and the seal of the County Clerk's Office on 11/17/2022.

EXHIBIT

to the original as filed in the County Clerk's Office on 11/17/2022.

- 1. Original as filed in the County Clerk's Office on 11/17/2022.
- 2. Original as filed in the County Clerk's Office on 11/17/2022.
- 3. Original as filed in the County Clerk's Office on 11/17/2022.
- 4. Original as filed in the County Clerk's Office on 11/17/2022.
- 5. Original as filed in the County Clerk's Office on 11/17/2022.

to the original as filed in the County Clerk's Office on 11/17/2022.

STATE OF TEXAS
COUNTY OF DALLAS
OFFICE OF THE COUNTY CLERK

EXHIBIT "A"

Timmy Mink Oil Well
Ohio County, West Virginia

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WV-661, by SWN Production Company, L.L.C., Operator

#	TMF	LESSOR	LESSEE	ROYALTY	RE/PG	% INTEREST NOT LEASED BY SWN PRODUCTION COMPANY, LLC
1)	06-0017-0018-0000	Howard L. Mink, and Beverly G. Mink, husband and wife	Great Lakes Energy Partners, L.L.C. Cheapeake Appalachia, L.L.C.	12.50%	776/391 808/418	0.00%
<p>Notes: Timmy and Amy Mink (current Mineral Owners) obtained mineral interest by deed dated June 19, 2008, from Howard L. Mink, Sr. and Beverly G. Mink, husband and wife, and recorded on June 19, 2008 in Deed Book 795, Page 725 in the Office of the County Clerk of Ohio County, West Virginia. Howard and Beverly Mink executed the subject lease in 2006 with Great Lakes Energy Partners, L.L.C. before the above mentioned conveyance. Therefore, the current mineral owners are subject to the original lease shown above recorded at Book 776 and Page 391, which SWN Production Company, L.L.C. currently operates through the assignment recorded at Book 883 and Page 192</p>						
2)	04-0817-0037-0002	Robert W. Mink Sr., married	SWN Production Company, L.L.C. Great Lakes Energy Partners, L.L.C. Cheapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	12.50%	883/192 776/391 808/418 884/281	0.00%
3)	04-0817-0062-0000	Shawn A. Rodgers and Louisa G. Rodgers, husband and wife	Cheapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	10.00%	824/239 884/705	0.00%
4)	06-0012-0019-0000	Jungus Lodge Inc. by Bruce M. Manassis, President	Cheapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	10.00%	840/671 882/280	0.00%
5)	06-0017-0019-0001	William A. Orum and Cynthia E. Orum, husband and wife	NPAA, L.L.C. Chevron U.S.A. Inc. Cheapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	10.00%	01/097 827/259 857/713 883/220	0.00%
6)	06-0017-0022-0000	Ruth Hall, widow	NPAA, L.L.C. Chevron U.S.A. Inc. Cheapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	10.00%	814/339 827/284 846/359 885/286	0.00%
7)	06-0017-0115-0001	Michael D. Orum Michael A. Strawn and Tino L. Strawn, husband and wife Timothy A. Coleman and Kimberly A. Coleman, husband and wife Christopher Orum Matthew Orum Joseph Kelly Orum Laura Malbank Ray Marie Trapp Dawn Orum	SWN Production Company, L.L.C. SWN Production Company, L.L.C. SWN Production Company, L.L.C. SWN Production Company, L.L.C. SWN Production Company, L.L.C. SWN Production Company, L.L.C. SWN Production Company, L.L.C. SWN Production Company, L.L.C. SWN Production Company, L.L.C.	14.00% 14.00% 14.00% 14.00% 14.00% 14.00% 14.00% 14.00%	910/245 920/617 920/624 926/673 926/713 937/482 949/1 989/854 929/214	0.00%
8)	06-0017-0111-0000	Ralph Lee Prater, II and Melissa Edith Prater, husband and wife	NPAA, L.L.C. Chevron U.S.A. Inc. Cheapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	10.00%	810/101 827/269 857/713 883/220	0.00%
9)	06-0017-0112-0001	Jeddy L. Auber	Cheapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	12.50%	825/149 834/229	0.00%
10)	06-0017-0112-0001	Jo-Ann Auber, widow	Cheapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	12.50%	829/182 884/229	0.00%
11)	06-0017-0112-0001	Sharon Ann Auber, single	Cheapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	12.50%	829/166 884/229	0.00%
12)	06-0017-0112-0000	J. D. Miller and Nancy E. Miller, husband and wife	TriEnergy, Inc. TriEnergy Holdings, LLC Cheapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	14.00%	791/171 794/859 883/253	0.00%
13)	06-0017-0034-0000	J. D. Miller and Nancy E. Miller, husband and wife	TriEnergy, Inc. TriEnergy Holdings, LLC Cheapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	14.00%	788/602 791/171 798/653 883/253	0.00%
14)	06-0017-0122-0000	Linda L. Stephens, married, and Jeddy R. Stephens, single	Cheapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	14.00%	609/146 884/409	0.00%
15)	06-0124-0028-0001	Thomas L. Riggle and Christine M. Auber, husband and wife	SWN Production Company, L.L.C.	14.00%	915/352	0.00%
16)	06-0017-0023-0000	Frank L. Farris, Sr. and Betty L. Farris, husband and wife	Cheapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	10.00%	884/227 884/227	0.00%
17)	06-0017-0023-0001	Frank L. Farris, Sr. and Betty L. Farris, husband and wife	Cheapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	10.00%	887/41 884/227	0.00%
18)	06-0017-0023-0000	Vergine D. Clegg, widow	Cheapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	10.00%	872/181 884/249	0.00%
19)	06-0017-0148-0001	Steven A. Moore and Lisa K. Moore, husband and wife	SWN Production Company, L.L.C.	15.00%	924/636	0.00%
20)	06-0017-0183-0000	John J. Corbett	NPAA, L.L.C. Chevron U.S.A. Inc. Cheapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	17.00%	802/181 827/254 838/339 883/220	0.00%
21)	06-0017-0130-0001	John T. Crivelli and Katherine Ann Crivelli, husband and wife	NPAA, L.L.C. Chevron U.S.A. Inc. Cheapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	10.00%	820/424 827/299 867/712 883/220	0.00%
22)	06-0017-0152-0010	Hickory Eagle Resources II, LLC	American Petroleum Partners Operating, L.L.C. SWN Production Company, L.L.C.	10.00%	1574/100 580/572	0.00%
23)	06-0017-0166-0000	Midlife Truck Garage, Inc.	Cheapeake Appalachia, L.L.C. SWN Production Company, L.L.C.	10.00%	80/67 883/253	0.00%
24)	07-0101-0001-0001	Kandy Apozoler, single	SWN Production Company, L.L.C.	14.00%	915/418	0.00%
25)	07-0101-0001-0001	Kandy Apozoler	N/A	N/A	N/A	10.00%
		Arlene L. Tull	SWN Production Company, L.L.C.	14.00%	990/677	
		Barbara Jean Keefe, Trustee: The Keefe Family Trust D/A 4/3/003; Barbara Jean Keefe, individually; Frederick Keefe, and Diana C. Keefe	SWN Production Company, L.L.C.	14.00%	1036/367	
		Bonnie Ann Culligan, a single woman	SWN Production Company, L.L.C.	14.00%	1011/469	
		Bob Ann Moore	SWN Production Company, L.L.C.	10.00%	888/706	
		Indiana College	SWN Production Company, L.L.C.	10.00%	1010/259	
		Beverly Ann Wertsch, widow	SWN Production Company, L.L.C.	10.00%	1012/626	
		Beverly Maerny, a single woman	SWN Production Company, L.L.C.	10.00%	1010/409	
		Bradley L. McGrath, a single man	SWN Production Company, L.L.C.	14.00%	1015/408	
		Rina Knefel, a married woman dealing in her sole and separate property	SWN Production Company, L.L.C.	14.00%	1002/431	
		Carol C. Armstrong, Trustee of The Beatrice M. Cooper Testamentary Trust; Carol C. Armstrong, Successor Trustee	SWN Production Company, L.L.C.	14.00%	1010-1111, 1010-1110	
		Catherine Buntz, aka, Cathy Buntz and John Buntz, husband and wife	SWN Production Company, L.L.C.	10.00%	1011/709	
		Charles M. Sullivan, a single man	SWN Production Company, L.L.C.	14.00%	995/710	
		Charlaine Wells, widow	SWN Production Company, L.L.C.	14.00%	1005/31	
		Cynthia Crutcher, A married woman dealing in her sole and separate property	SWN Production Company, L.L.C.	14.00%	1014/514	
		David Charles Blake and Heidi Blake, husband and wife	SWN Production Company, L.L.C.	10.00%	1012/603	
		David Wilson	SWN Production Company, L.L.C.	10.00%	1015/747	
		Don Thomas and Janet Thomas, to husband and wife	SWN Production Company, L.L.C.	10.00%	1013/739	
		Doree Marie Mennan, aka, Doree Marie Gierl, a married woman dealing in her sole and separate property	SWN Production Company, L.L.C.	14.00%	1012/464	
		Donald Joseph Diaz and Esther Blake, husband and wife	SWN Production Company, L.L.C.	14.00%	1012/418	
		Donna J. Waffy, a single woman	SWN Production Company, L.L.C.	14.00%	1011/717	
		Frank Jay Keefe, a widower	SWN Production Company, L.L.C.	14.00%	1012/383	
		Frank M. McElroy	SWN Production Company, L.L.C.	14.00%	1011/717	
		Gay Lynn Darrell, a married woman dealing in her sole and separate property	SWN Production Company, L.L.C.	14.00%	960/496	
		George Neil Cooper, widower	SWN Production Company, L.L.C.	14.00%	1020/118	
		Gary I. Trager, Sr., single	SWN Production Company, L.L.C.	14.00%	1010/110	
		Gregory Scott Howell	SWN Production Company, L.L.C.	14.00%	1008/43	
		Harriet W. Wilson, single	SWN Production Company, L.L.C.	14.00%	989/703	
		James D. Cox, a married man dealing in his own and separate property	SWN Production Company, L.L.C.	14.00%	1015/282	
		James G. White, single	SWN Production Company, L.L.C.	14.00%	1000/72	
		Janet Lee Blake and Carl Blake, husband and wife	SWN Production Company, L.L.C.	14.00%	1011/493	
		Janet Thomas and Tara Thomas, husband and wife	SWN Production Company, L.L.C.	14.00%	1007/516	
		Janet Varga, a widower	SWN Production Company, L.L.C.	14.00%	1018/338	
		Jeffrey M. Keefe, a married man dealing in his sole and separate property	SWN Production Company, L.L.C.	14.00%	1014/531	
		Janice Stotzbach, aka, Janey Stotzbach, single	SWN Production Company, L.L.C.	14.00%	1008/423	
		Jacquie McMorry, a married woman dealing in her sole and separate property	SWN Production Company, L.L.C.	14.00%	1013/722	
		John Fette	SWN Production Company, L.L.C.	14.00%	1002/72	
		John Frederick (Harbo)	SWN Production Company, L.L.C.	14.00%	1011/645	
		Jonathan E. Wulfske	SWN Production Company, L.L.C.	14.00%	996/371	
		Karen L. Plummer	SWN Production Company, L.L.C.	14.00%	1013/430	
		Karla R. Harbo	SWN Production Company, L.L.C.	14.00%	1009/43	
		Kathleen Catherine and Renee Catherine, husband and wife	SWN Production Company, L.L.C.	14.00%	1003/767	
			SWN Production Company, L.L.C.	14.00%	1013/346	

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EXHIBIT "A"
Tummy Misch OIR #11
Ohio County, West Virginia

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

#	TMP	LESSOR	LESSEE	ROYALTY	BLPG	% INTEREST NOT LEASED BY SWN PRODUCTION COMPANY, LLC
		Kathie Elin Coyne, a single woman	SWN Production Company, LLC	14.00%	1013-196	
		La Jean Branda, a widow	SWN Production Company, LLC	14.00%	1013-653	
		Laura A Cadden and Joe Ushak, wife and husband	SWN Production Company, LLC	14.00%	1013-83	
		Lawrence E. White, single	SWN Production Company, LLC	14.00%	1012-650	
		Lowell McCracken and Donna McCracken, husband and wife	SWN Production Company, LLC	14.00%	1011-482	
		Margaret Marie Felt, single	SWN Production Company, LLC	14.00%	1010-43	
		Maria A. Hillberry, a widow	SWN Production Company, LLC	14.00%	1010-61	
		Marilyn J. Lockman, single	SWN Production Company, LLC	14.00%	1010-92	
		Mary E. Malison aka May E. Ross	SWN Production Company, LLC	14.00%	1011-813, 1011-619	
		Mary E. Novak and Stanley Novak, husband and wife	SWN Production Company, LLC	14.00%	1008-762, 1010-21	
		Merlin Williams	SWN Production Company, LLC	14.00%	991-880	
		Nicole T. Conner aka Nikki Conner, a single woman	SWN Production Company, LLC	14.00%	1011-677	
		Norina Schmans, widow	SWN Production Company, LLC	14.00%	1011-661	
		Patricia Ruth Hinkson and Thomas C. Hinkson, husband and wife	SWN Production Company, LLC	14.00%	1011-701	
		Paul L. Ritchey, widower	SWN Production Company, LLC	14.00%	1015-755	
		Paula Brown, a married woman dealing in her sole and separate property	SWN Production Company, LLC	14.00%	1012-610	
		Pauline Kathryn Thurst, single	SWN Production Company, LLC	14.00%	1011-399	
		Rebecca Ann Ujich, a married woman dealing in her sole and separate property	SWN Production Company, LLC	14.00%	1010-33	
		Rebecca S. Matern, aka Rebecca S. Hix, a married woman dealing in her sole and separate property	SWN Production Company, LLC	14.00%	1012-642	
		Rick G. Riddle, widower	SWN Production Company, LLC	14.00%	1010-77	
		Roberta Malison Thayer	SWN Production Company, LLC	14.00%	990-319	
		Ronald David Howell, a married man dealing in his sole and separate property	SWN Production Company, LLC	14.00%	993-774	
		Sandra Ann White, Single	SWN Production Company, LLC	14.00%	1013-382	
		Scott Lee Anderson and Benjamin Jackson, husband and wife	SWN Production Company, LLC	14.00%	1013-354	
		Steen Mark Jackson, a single man	SWN Production Company, LLC	14.00%	1012-309	
		Susan Blaker Knight	SWN Production Company, LLC	14.00%	1008-323	
		Suzanne Lynn Rostery, a married woman dealing in her sole and separate property	SWN Production Company, LLC	14.00%	989-655	
		Teresa Walsh, a single woman	SWN Production Company, LLC	14.00%	1006-703	
		Theresa Riggle, widow	SWN Production Company, LLC	14.00%	1010-37	
		Trina M. Brown	SWN Production Company, LLC	14.00%	993-833	
		Von Wilson	SWN Production Company, LLC	14.00%	1013-192	
		William F. Malison, a single man	SWN Production Company, LLC	14.00%	997-171	
		William R. Malison, a single man	SWN Production Company, LLC	14.00%	1001-716	
		Woodrow J. Knollinger, Jr.	SWN Production Company, LLC	14.00%	976-92	
26)	07-07W4-0009-0000	Kathryn M. Knollinger and Woodrow J. Knollinger, Jr., wife and husband	Chesapeake Appalachia, L.L.C.	10.00%	803722	0.00%
			SWN Production Company, LLC		8037267	
27)	1/8 ROUTE #0	West Virginia Department of Transportation, Division of Highways	Chesapeake Appalachia, L.L.C.	10.00%	83071	0.00%
			SWN Production Company, LLC		8237610	
28)	07-07W4-0001-0000	Fort Himer Business and Industrial Center, Inc.	SWN Production Company, LLC	10.00%	1001945	0.00%
29)	07-07W3-0003-0000	Jedah A. McNeil, a widow	SWN Production Company, LLC	14.00%	990716	
		Guy R. Knollinger and Beverly K. Knollinger, husband and wife	SWN Production Company, LLC	14.00%	990722	
		Douglas W. Knollinger, a married man dealing in his sole and separate property	SWN Production Company, LLC	14.00%	980758	0.00%
		Kathryn M. Knollinger, a widow	SWN Production Company, LLC	14.00%	980616, 991022	
		Constance M. Knollinger, a widow	SWN Production Company, LLC	14.00%	981022	
30)	07-07W4-0100-0000	Trustees of The First Church of God of Philadelphia, West Virginia, aka The First Church of God, Camp Two	SWN Production Company, LLC	10.00%	1007710	0.00%
31)	07-07W4-0101-0000	TH LLC	SWN Production Company, LLC	10.00%	1005710	0.00%
32)	07-07W4-0102-0000	Jackson Hole Properties, LLC	SWN Production Company, LLC	10.00%	980747	0.00%
33)	07-07W4-0103-0000	Georgia Ann Whaley, a single woman	SWN Production Company, LLC	10.00%	1006710	0.00%
34)	07-07W4-0104-0000	The Kathleen B. Craft Foundation	SWN Production Company, LLC	10.00%	999764	0.00%
		The Joseph W. Craft III Foundation	SWN Production Company, LLC	10.00%	999771	
35)	07-07W4-0105-0000	James Edward Slaw and Mary Ann Slaw, husband and wife	SWN Production Company, LLC	10.00%	996763	0.00%
36)	07-07W4-0106-0000	James Edward Slaw and Mary Ann Slaw, husband and wife	SWN Production Company, LLC	10.00%	996763	0.00%
37)	07-07W3-0001-0000	James Edward Slaw and Mary Ann Slaw, husband and wife	SWN Production Company, LLC	10.00%	1013767	0.00%
38)	06-0712-0003-0000	The Ohio County Development Authority	Chesapeake Appalachia, L.L.C.	10.00%	802727	0.00%
					881255	
39)	07-07W3-0003-0000	Melrose Mobile Homes, Inc.	SWN Production Company, LLC	10.00%	985731	0.00%
		Tim T. Temple and Patricia A. Temple, his wife	SWN Production Company, LLC	10.00%	990742	
40)	07-07W3-0004-0000	Mountain Estate Realty, L.L.C.	SWN Production Company, LLC	10.00%	913774	0.00%
41)	07-07W3-0005-0000	James L. Morris and Mary A. Morris, husband and wife	Chesapeake Appalachia, L.L.C.	10.00%	802731	0.00%
					105404	
42)	07-07W10-0001-0000	The Ohio County Development Authority	Chesapeake Appalachia, L.L.C.	10.00%	802727	0.00%
					803725	
43)	06-0713-0005-0000	Albanus Resources GP, LLC, by Kenneth S. Barrett, Vice President-Lead Management and Corporate Counsel	Chesapeake Appalachia, L.L.C.	10.73%	805780	0.00%
					803776	

* At least 7 million shares in trust and at least 75% of the royalty income have been committed to the best use or development of the oil and natural gas mineral property on the tract. The interests of the remaining co-tenants will be secure payment in the Co-tenancy Mediation and Majority Protection Act.

END OF EXHIBIT "A"

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WV Dept. of Environmental Protection

04/08/2022



4706900335
SWN Production Company, LLC
1300 Fort Pierpont Dr, Ste 201
Morgantown, WV 26508
Tel: 304 884 1610
Fax: 304 471 2497
www.swn.com

February 18, 2022

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

RE: SWN's proposed New Well: Timmy Minch OHI 8H in Ohio County, West Virginia, Drilling under Browns Run Road, Peters Road, Chapel Hill Road, Kingsley Drive, and National 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 Browns Run Road, Peters Road, Chapel Hill Road, Kingsley Drive, and National Road. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Respectfully Submitted:

Gavin Nadeau, RPL
Landman
SWN Production Company, LLC

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WV Department of
Environmental Protection

The Right People doing the Right Things,
wisely investing the cash flow from our
underlying Assets. 04/08/2022

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

Date of Notice Certification: 3/3

API No. 47- 009 -
Operator's Well No. Timmy Minch OHI 8H
Well Pad Name: Timmy Minch OHI

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>530160.049</u>
County:	<u>069-Ohio</u>	UTM NAD 83 Northing:	<u>4437289.664</u>
District:	<u>Triadelphia</u>	Public Road Access:	<u>Browns Run Road</u>
Quadrangle:	<u>Wheeling</u>	Generally used farm name:	<u>Timmy Minch OHI</u>
Watershed:	<u>Browns Run of Peters Run of Wheeling Creek</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 <input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED <input checked="" type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED <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 checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION <input checked="" type="checkbox"/> 5. PUBLIC NOTICE <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		OOG OFFICE USE ONLY <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED
RECEIVED Office of Oil and Gas MAR 4 2022		

WV Department of
Environmental Protection

Required Attachments:

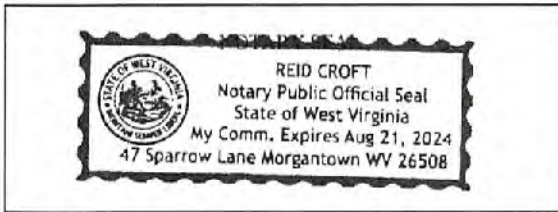
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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

Certification of Notice is hereby given:

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

Well Operator:	<u>SWN Production Co., LLC</u>	Address:	<u>1300 Fort Pierpont Dr., Suite 201</u>
By:	<u>Brittany Woody</u>		<u>Morgantown, WV 26508</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 17th day of Feb, 2022.

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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MAR 4 2022

WV Department of
Environmental Protection

WW-6A
(9-13)

API NO. 47- 009 -
OPERATOR WELL NO. Timmy Minch OHI BH
Well Pad Name: Timmy Minch OHI

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: 3/3 **Date Permit Application Filed:** 3/3

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: Timmy B. & Amy L. Minch
 Address: 260 Browns Run Road
Wheeling, WV 26003
 Name: _____
 Address: _____

COAL OWNER OR LESSEE
 Name: Alliance Resources GP, LLC
 Address: 2596 Battle Run Road
Triadelphia, WV 26059
 COAL OPERATOR
 Name: _____
 Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)
 Name: _____
 Address: _____
 Name: _____
 Address: _____

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

SURFACE OWNER(s) (Impoundments or Pits)
 Name: _____
 Address: _____

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

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Office of Oil and Gas

*Please attach additional forms if necessary

MAR 4 2012

WV Dept. of Environmental Protection

04/08/2022

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

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

Date of Notice: _____ **Date Permit Application Filed:** _____

Notice of:

- PERMIT FOR ANY 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: _____
Address: _____

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: H3, LLC
Address: Rt. 1 Box 605
Milton, WV 25541

COAL OPERATOR
Name: _____
Address: _____

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

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

*Please attach additional forms if necessary

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Office of Oil and Gas

MAR 4 2022

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

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(8-13)

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API NO. 47-009 -
OPERATOR WELL NO. Timmy Minch OHI 8H
Well Pad Name: Timmy Minch OHI

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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Office of Oil and Gas

MAR 4 2022

WV Department of
Environmental Protection

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.**

04/08/2022

WW-6A
(8-13)

API NO. 47- 009 -
OPERATOR WELL NO. Timmy Minch OHI 8H
Well Pad Name: Timmy Minch OHI

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

Disclaimer: All comments received will be placed on our web site <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

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

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

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

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

WW-6A
(8-13)

4706900335

API NO. 47-009 -
OPERATOR WELL NO. Timmy Minch OHI BH
Well Pad Name: Timmy Minch OHI

Notice is hereby given by:

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

Brittany Woody

Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Facsimile: 304-884-1690

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 17th day of Feb, 2022.
Reid Croft Notary Public
My Commission Expires 8/21/2024

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MAR 4 2022

WV Department of
Environmental Protection

04/08/2022

OWNER	MAILING ADDRESS	CITY	STATE	ZIP	WATER SOURCES
MINCH TIMMY B & AMY L	160 BROWNS RUN Rd	WHEELING	WV	26003	3
MINCH ROBERT WILLIAM JR	265 BROWNS RUN Rd	WHEELING	WV	26003	1

✓
✓



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Environmental Protection

04/08/2022

WW-6A3
(1/12)

Operator Well No. Timmy Minch OH

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: 1/10/2022 **Date of Planned Entry:** 1/17/2022

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

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

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

Notice is hereby provided to:

SURFACE OWNER(s)

Name: Timmy B. & Amy L. Minch

Address: 280 Browns Run Road
Wheeling, WV 26003

Name: _____

Address: _____

Name: _____

Address: _____

COAL OWNER OR LESSEE

Name: Alliance Resources GP, LLC

Address: 2596 Battle Run Road
Triadelphia, WV 26059

MINERAL OWNER(s)

Name: Timmy B. & Amy L. Minch

Address: 280 Browns Run Road
Wheeling, WV 26003

*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>West Virginia</u>	Approx. Latitude & Longitude: <u>40.085254, -80.646239</u>
County: <u>Ohio</u>	Public Road Access: <u>Brown Run Road</u>
District: <u>Triadelphia</u>	Watershed: <u>Browns Run of Peters Run of Little Wheeling Creek</u>
Quadrangle: <u>Wheeling</u>	Generally used farm name: <u>Timmy Minch</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: Brittany_Woody@swn.com

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

Facsimile: 304-884-1690

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Office of Oil and Gas
MAR 04 2022
WV Department of
Environmental Protection

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.

04/08/2022

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: 1/10/2022 Date of Planned Entry: 1/17/2022

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

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

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

Notice is hereby provided to:

SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: HS, LLC
Address: Rt. 1 Box 605
Milton, WV 25544

MINERAL OWNER(s)

Name: _____
Address: _____

*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>West Virginia</u>	Approx. Latitude & Longitude:	<u>40.085254, -80.846239</u>
County:	<u>Ohio</u>	Public Road Access:	<u>Brown Run Road</u>
District:	<u>Triadelphia</u>	Watershed:	<u>Browns Run of Peters Run of Little Wheeling Creek</u>
Quadrangle:	<u>Wheeling</u>	Generally used farm name:	<u>Timmy Minch</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: Brittany_Woody@swn.com

Address: 1300 Fort Pierpont Dr., Suite 201
Morgantown, WV 26508
Facsimile: 304-884-1690

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business, or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. **RECEIVED**
Office of Oil and Gas 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. **MAR 04 2022**

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 filling a permit application.

Date of Notice: 02/07/2022 **Date Permit Application Filed:** 3/5

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: Timmy B. & Amy L. Minch
Address: 260 Browns Run Rd.
Wheeling, WV 26003

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:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>530,180.049</u>
County:	<u>Ohio</u>		Northing:	<u>4,437,289.664</u>
District:	<u>Tridelpia</u>	Public Road Access:	<u>Browns Run Road</u>	
Quadrangle:	<u>Wheeling, WV</u>	Generally used farm name:	<u>Timmy Minch OHI</u>	
Watershed:	<u>Browns Run of Peters Run of Wheeling Creek (HUC-10)</u>			

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 Drive, Suite 201
Morgantown, WV 26508
Telephone: 304-884-1714
Email: Michael_Yates@swn.com
Facsimile: _____

Authorized Representative: Mike Yates
Address: 1300 Fort Pierpont Drive, Suite 201
Morgantown, WV 26508
Telephone: 304-884-1714
Email: Michael_Yates@swn.com
Facsimile: _____

Oil and Gas Privacy Notice:

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

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MAR 04 2022
04/08/2022
WV Department of
Environmental Protection

WW-6A5
(1/12)

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: 02/07/2022 **Date Permit Application Filed:** 3/3

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

CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

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

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

Name: Timmy B. & Amy L. Minch Name: _____
Address: 260 Browns Run Rd. Address: _____
Wheeling, WV 26003 _____

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:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>530,160.049</u>
County:	<u>Ohio</u>		Northing:	<u>4,437,289.664</u>
District:	<u>Tridelphia</u>	Public Road Access:	<u>Browns Run</u>	
Quadrangle:	<u>Wheeling, WV</u>	Generally used farm name:	<u>Timmy Minch OHI</u>	
Watershed:	<u>Browns Run of Peters Run of Wheeling Creek (HUC-10)</u>			

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:	<u>SWN Production Company, LLC</u>	Address:	<u>1300 Fort Pierpont Drive, Suite 201</u>
Telephone:	<u>304-884-1714</u>		<u>Morgantown, WV 26503</u>
Email:	<u>Michael_Yates@swn.com</u>	Facsimile:	_____

Oil and Gas Privacy Notice:

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MAR 04 2022

WV Department of
Environmental Protection
04/08/2022



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

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

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

February 9, 2022

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 Timmy Minch Pad, Ohio County
Timmy Minch OHI 8H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2011-0441 which has been issued to Southwestern Energy for access to the State Road for a well site located off Ohio County Route 25/1 SLS MP 0.12.

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

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MAR 04 2022

WV Department of Environmental Protection

04/08/2022

Attachment VI Frac Additives

4706900335

Product Name	Product Use	Chemical Name	CAS Number
AI-303 (U.S. Well Services)	Mixture	Ethylene glycol	107-21-1
		Cinnamaldehyde	104-55-2
		Butyl cellosolve	111-76-2
		Formic acid	64-18-6
		Polyether	Proprietary
		Acetophenone, thiourea, formaldehyde polymer	68527-49-1
AP ONE (U.S. Well Services)	Breaker	Ammonium persulfate	7727-54-0
Bactron K-139 (Champion Technologies)	Biocide	Glutaraldehyde	111-30-8
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
Bactron K-219 (Champion Technologies)	Biocide	Methanol	67-56-1
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
CarboNRT	Tracer	Ceramic Proppant	65402-68-4
EC6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate	Proprietary
		Ethylene Glycol	107-21-1
EC6734A (Champion Technologies)	Biocide	Hydrogen Peroxide	7722-84-1
		Acetic Acid	64-19-7
		Peroxyacetic Acid	79-21-0
Econo-CI200 (SWN Well Services)	Corrosion Inhibitor	Methanol	67-56-1
		Oxyalkylated fatty acid	68951-67-7
		Fatty acids	61790-12-3
		Modified thiourea polymer	68527-49-1
		Water	7732-18-5
		Hydrochloric acid	7647-01-0
		Potassium acetate	127-08-2
Formaldehyde	50-00-0		
Ecopol-FEAC (SWN Well Services)	Iron Control	Acetic Acid	64-19-7
		Citric Acid	77-92-9
		Water	7732-18-5
FDP-S1176-15 (Halliburton)	Friction Reducer	Polyacrylate	Proprietary
		Hydrotreated light petroleum distillate	64742-47-8
FLOJET DR900 LPP (SWN Well Services)	Friction Reducer	Distillates (petroleum) hydrotreated light	64574-47-8
		Ethylene Glycol	107-21-1
		Alcohols, C12-16, Exoxylated propoxylated	68213-24-1
		Fatty Alcohols ethoxylated	Proprietary
		Water	7732-18-5
FLOJET DRP 1130X (SWN Well Services)	Friction Reducer	Proprietary	Proprietary
FR-76 (Halliburton)	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
		Inorganic Salt	Proprietary
GYPTRON T-390 (Champion Technologies)	Scale Inhibitor	Methanol	67-56-1
		Nonylphenol Ethoxylate	Proprietary
HAI-150E (Halliburton)	Corrosion Inhibitor	No hazardous substance	N/A
HCL (SWN Well Services)	Hydrochloric Acid	Hydrochloric Acid	7647-01-0
		Water	7732-18-5
IP-65 MC (Halliburton)	Scale Inhibitor	Organic phosphonate	Proprietary
		Ammonium Chloride	12125-02-9
OPTI-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	64742-47-8
Plexslic 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		
Plexslic 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
Plexslic 957	Friction Reducer	Petroleum Distillate	64742-47-8
		Ammonium Chloride	12125-02-9
		Oleic Acid Diethanolamide	93-83-4
		Alcohols, C12-16, Exoxylated	68551-12-2
		Water	7732-15-5
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 555 NM	Scale Inhibitor	Diethylenetriamine penta (methylene phosphonic acid)	15827-80-8
Plexslic 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 P550A	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
Legend LD-7750W	Scale Control	Poly (oxy-1,2-ethanediyl) alpha-tridecyl-omega-hydroxy-, branched	69011-36-5
		Methanol	67-56-1
MC MX 8-4743	Specialty Product	Phosphonic Acid Salt	Proprietary
		Sodium Nitrate	7631-99-4

RECEIVED
Office of Oil and Gas

MAR 04 2022

WV Department of
Environmental Protection

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 TOPOGRAPHIC SURVEY USED FOR THIS BASE MAPPING INSIDE THE LOD WAS PERFORMED BY JHA COMPANIES FROM JUNE 01, 2018 TO JUNE 04, 2018. TOPOGRAPHIC MAPPING OUTSIDE OF THE LOD IS FROM LIDAR DATA FROM WV GIS TECHNICAL CENTER.
6. NO TOPSOIL REMOVAL BETWEEN LIMIT OF CONSTRUCTION AND LIMIT OF DISTURBANCE. VEGETATIVE BUFFER TO REMAIN.
7. FILL WILL BE COMPACTED TO 96% 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.

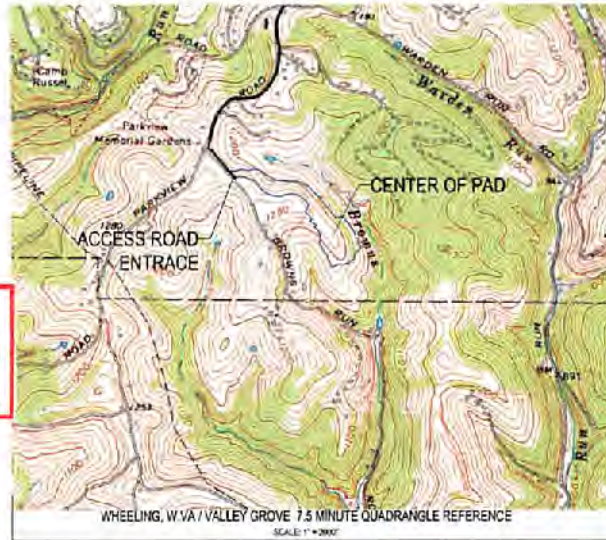
CUT/FILL QUANTITIES

PAD:
 CUT - 8,610 CY
 FILL - 13,630 CY
 TOTAL COMBINED - 22,800

AST -
 CUT - 6,710 CY
 FILL - 20 CY
 TOTAL COMBINED - 5,730 CY

**APPROVED
 WVDEP OOG**
 Modification
 8/23/2018

EROSION AND SEDIMENT CONTROL PLAN FOR TIMMY MINCH PAD EXPANSION TRIADELPHIA DISTRICT, OHIO COUNTY, WEST VIRGINIA



COORDINATES:
SITE ENTRANCE
 (NAD 83)
 LAT: 40.088192°
 LONG: -80.652358°

AT MINCH PAD
 (NAD 83)
 LAT: 40.085820°
 LONG: -80.646244°

CENTER OF PAD
 (NAD 83)
 LAT: 40.085323°
 LONG: -80.646230°

GATHERING AREA
 (NAD 83)
 LAT: 40.088289°
 LONG: -80.652336°

CENTER OF AST
 (NAD 83)
 LAT: 40.086452°
 LONG: -80.646395°

REVISION DETAILS

REVISION #1
 REVISED SHEETS: C.001, C.101, C.104, C.201, C.202

REVISION #2
 ADDED SHEET C.302

LANDS NF OF
 TIMMY B AND AMY L MINCH
 TMP #4-R17-857 & 9-72-18
 LIMIT OF DISTURBANCE = 17.02 ACRES

DWG. NO	DRAWING DESCRIPTION
C.001	COVER SHEET
C.002 - C.003	EVACUATION ROUTE / PREVAILING WINDS
C.101 - C.104	EXISTING CONDITIONS
C.201 - C.205	GRADING AND EROSION CONTROL PLANS / PROFILES
C.301	RECLAMATION PLANS
C501 - C.522	DETAILS

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

PROJECT COORDINATOR:
 SHAWN JACKSON,
 SOUTHWESTERN ENERGY, LLC
 FIELD PLANNING SUPERVISOR - WV DIV.
 179 INNOVATION DRIVE
 JANE LEW, WV 26378
 PHONE: (304) 884-1618
 EMAIL: SHAWN_JACKSON@SWN.COM

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

PROJECT MANAGER:
 JOHN DUBOWSKI

TOPOGRAPHIC INFORMATION:
 GROUND SURVEY DATED JUNE 4, 2018
 DATUM: HORZ. NAD 83 WEST VIRGINIA NORTH
 VERT. NAVD 88

Item Description	Unit	Quantity
Mobilization per machine	Each Machine	N/A
Clearing, Grubbing	Ac.	N/A
Earthwork	C.Y.	28530
Geotextile	S.Y.	5240
#1(3") Base Rock Delivered to Site	Ton	2180
467's Top Rock Delivered to Site	Ton	935
Spreading Stone	Ton	3115
Toe Bench Material	C.Y.	3050
Toe Key Drains	L.F.	3660
Pad Perimeter Underdrain	Each Outlet	7
Seed & Straw Mulch	Ac.	3.9
Straw Slope Matting	S.Y.	6370
12" Filter Sock	L.F.	N/A
18" Filter Sock	L.F.	531
24" Filter Sock	L.F.	592
32" Filter Sock	L.F.	N/A
Super Silt Fence	L.F.	N/A

LOCATION MAP NOT TO SCALE	
NO.	DATE
2	08/23/18
1	08/17/18

2 WORKING DAYS BEFORE YOU DIG CALL TOLL FREE 800-285-6948 MISS UTILITY OF WEST VIRGINIA

PREPARED FOR:



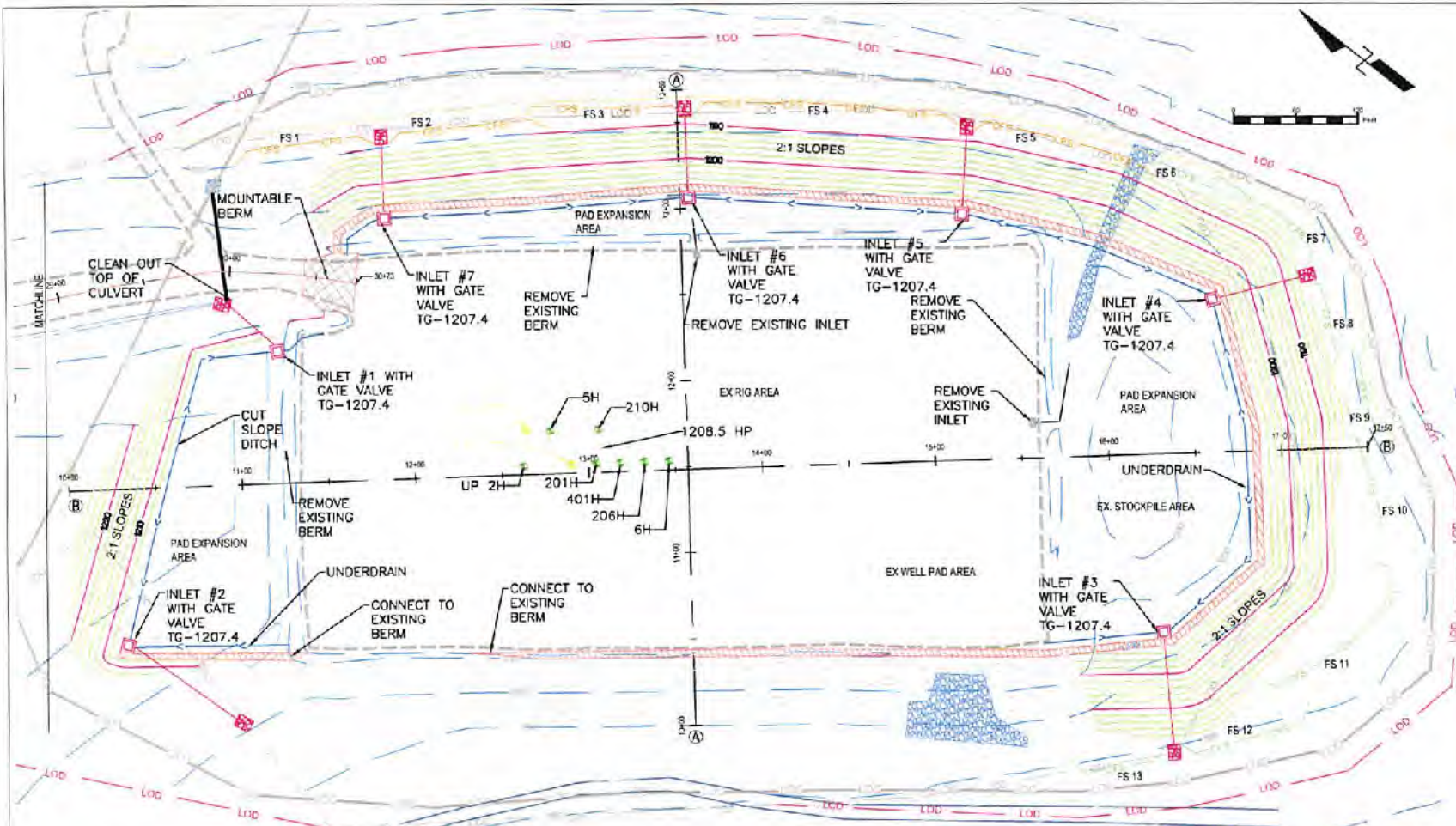
JHA Companies
SURVEYORS ENGINEERS ENVIRONMENTAL GIS MAPPING
 www.jhacompanies.com
 68011 VINEYARD ROAD
 ST. CLAIRSVILLE, OH 43950
 (740) 695-6100
 PA * OH * NY * WV

PROJECT NO.	DATE	DESIGN	CLW
TIMMY MINCH PAD EXPANSION	2018-08	DESIGN	CLW
	08/23/18	DESIGN	CLW
	AS NOTED	DESIGN	JPD

CONSTRUCTION PLAN
 FOR
TIMMY MINCH PAD EXPANSION
 LOCATED IN TRIADELPHIA DISTRICT,
 OHIO COUNTY, WEST VIRGINIA

TITLE	PLG TYPE	SHEET NO
COVER SHEET	FINAL	C.001


THIS DRAWING SHALL NOT BE PRINTED BY ANY PERSON, FIRM OR CORPORATION WITHOUT THE SPECIFIC WRITTEN PERMISSION OF JHA COMPANIES.






- | | | | |
|------------------------|--|----------------------------------|--|
| EXISTING BUILDING | | PROPOSED MAJOR CONTOUR | |
| EXISTING MAJOR CONTOUR | | PROPOSED MINOR CONTOUR | |
| EXISTING MINOR CONTOUR | | PERMITTED LOD | |
| EXISTING TREELINE | | PROPOSED LOD | |
| EXISTING STORM PIPE | | PROPOSED LOC | |
| EXISTING DITCH | | PROPOSED STORM PIPE | |
| EXISTING GAS LINE | | PROPOSED OUTLET PROTECTION | |
| EXISTING WATER LINE | | PROPOSED UNDERDRAIN | |
| EXISTING EDGE OF ROAD | | PROPOSED EDGE OF GRVEL | |
| EXISTING FENCE | | PROPOSED 18" COMPOST FILTER SOCK | |
| EXISTING RIP RAP | | PROPOSED 24" COMPOST FILTER SOCK | |

NOTES:
 CONTRACTOR SHALL VERIFY MATERIAL IN THE STOCKPILE IS SUITABLE TO BE USED AS FILL.

APPROVED WVDEP OOG
 Modification 8/23/2018
WJD



PROJECT LOCATION

LOCATION MAP NOT TO SCALE	
NO.	DATE
1	08/22/18
PER WVDEP COMMENTS	DESCRIPTION
2 WORKING DAYS BEFORE YOU DAY CALL TOLL FREE 800-245-4845 West Virginia Department of Environmental Protection	
PREPARED FOR:	
	
SEAL	
	
	
69011 VINEYARD ROAD ST. CLAIRSVILLE, OH 43050 (740) 695-6100 PA * OH * NY * WV	
PROJECT NO.	2018-259
DATE	08/22/18
SCALE	AS NOTED
DESIGN	CLW
DRAWN	JPD
CONSTRUCTION PLANS FOR	
TIMMY MINCH PAD EXPANSION	
LOCATED IN TRADOLPHIA DISTRICT	
OHIO COUNTY, WEST VIRGINIA	
FILE:	
GRADING AND EROSION CONTROL PLAN	
PLAN TYPE:	FINAL
SHEET NO.:	C.201

THIS DRAWING SHALL NOT BE USED BY ANY PERSON, FIRM OR CORPORATION WITHOUT THE SPECIFIC WRITTEN PERMISSION OF J.A. COMPANY

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 NRC'S WEB SOIL SURVEY.
5. THE TOPOGRAPHIC SURVEY USED FOR THIS BASE MAPPING INSIDE THE LOD WAS PERFORMED BY JHA COMPANIES FROM JUNE 01, 2018 TO JUNE 04, 2018. TOPOGRAPHIC MAPPING OUTSIDE OF THE LOD IS FROM LIDAR DATA FROM WV GIS TECHNICAL CENTER.
6. NO TOPSOIL REMOVAL BETWEEN LIMIT OF CONSTRUCTION AND LIMIT OF DISTURBANCE. VEGETATIVE BUFFER TO REMAIN.
7. FILL WILL BE COMPACTED TO 95% CF STANDARD PROCTOR DENSITY (ASTM-699). 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 TIMMY MINCH PAD EXPANSION TRIADELPHIA DISTRICT, OHIO COUNTY, WEST VIRGINIA



PROJECT NARRATIVE:
PROPOSED CONSTRUCTION TO BE PERFORMED IN ACCORDANCE WITH THIS DRAWING SET (34 PAGE SHEET SET, DATED 2018-06-18), WHICH ARE COMPLEMENTARY AND HAVE THE SAME FORCE / EFFECT IN OBSERVING 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
278 INDIANATOR DRIVE
JANESVILLE, WV 26178
PHONE: (304) 864-1518
WWW.SWEN.COM

PROJECT COORDINATOR:
STRAWN JACKSON,
SOUTHWESTERN ENERGY, LLC
FIELD PLANNING SUPERVISOR - WV DIV.
278 INDIANATOR DRIVE
JANESVILLE, WV 26178
PHONE: (304) 864-1518
EMAIL: STRAWN JACKSON@SWEN.COM

ENGINEER:
JHA COMPANIES
8001 VINEYARD ROAD
ST. CLAIRSVILLE, OHIO 43050
PHONE: (740) 695-6100
FAX: (740)-440-2343

PROJECT MANAGER:
JENNI GUNDWISKI

TOPOGRAPHIC INFORMATION:
GROUND SURVEY DATED JUNE 4, 2018
DATUM: HORZ. NAD 83 WEST VIRGINIA NORTH
VERT. NAVD 88



LOCATION/NOT TO SCALE	
NO.	DATE
1	06/18/2018
2	06/20/2018
3	06/20/2018
4	06/20/2018
5	06/20/2018
6	06/20/2018
7	06/20/2018
8	06/20/2018
9	06/20/2018
10	06/20/2018

COORDINATES:
SITE ENTRANCE
(NAD 83)
LAT: 40.083192°
LONG: -80.652356°

AT MINCH PAD
(NAD 83)
LAT: 40.085820°
LONG: -80.646244°

CENTER OF PAD
(NAD 83)
LAT: 40.085333°
LONG: -80.646230°

GATHERING AREA
(NAD 83)
LAT: 40.089289°
LONG: -80.652336°

CENTER OF AST
(NAD 83)
LAT: 40.086452°
LONG: -80.646995°

REVISION DETAILS

REVISION #1
REVISED SHEETS: C.001, 10.C.104.C.201.C.102

REVISION #2
ADDED SHEET C.302

LANDS OF
TABBY B AND ALY L MINCH
TAP #4 R17-857 & 6-T3-1E
LIMIT OF DISTURBANCE = 17.02 ACRES

DWG. NO.	DRAWING DESCRIPTION
C.001	COVER SHEET
C.002 - C.003	EVACUATION ROUTE / FRESHWATER WINDS
C.101 - C.104	EXISTING CONDITIONS
C.201 - C.205	DRAGS AND EROSION CONTROL PLANS / PROFILES
C.301	RECLAMATION PLANS
C501 - C522	DETAILS

CUT/FILL QUANTITIES

PAD -
CUT - 8,916 CY
FILL - 13,890 CY
TOTAL COMBINED - 22,806

AST -
CUT - 5,710 CY
FILL - 20 CY
TOTAL COMBINED - 5,730 CY

Item Description	Unit	Quantity
Mobilization per machine	Each Machine	N/A
Clearing, Grubbing	Ac.	N/A
Earthwork	C.Y.	28530
Geotextile	S.Y.	5240
#1(3") Base Rock Delivered to Site	Ton	2180
467's Top Rock Delivered to Site	Ton	935
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18" Filter Sock	L.F.	531
24" Filter Sock	L.F.	592
32" Filter Sock	L.F.	N/A
Super Silt Fence	L.F.	N/A

2100000 DATS
BEFORE YOU DRG
CALL TOLL FREE
800-245-1818
MISS LIBRARY OF WEST VIRGINIA

PREPARED FOR:
swen
Southwestern Energy



JHA
ENGINEERS
ENVIRONMENTAL
GIS MAPPING

www.jhacompanies.com
8001 VINEYARD ROAD
ST. CLAIRSVILLE, OH 43050
(740) 695-6100
PA - OH - WV - NY

PROJECT: TIMMY MINCH PAD EXPANSION
DATE: 06/18/2018
SCALE: AS SHOWN
CONSTRUCTION PLAN
FOR
TIMMY MINCH PAD EXPANSION
LOCATED IN TRIADDELPHIA DISTRICT,
OHIO COUNTY, WEST VIRGINIA

COVER SHEET
SHEET: C.001

revised 7/8/18