

### 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 10H 47-069-00336-00-00

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.

Operator's Well Number:

TIMMY MINCH OHI 10H TIMMY B MINCH & AMY L #

Farm Name:

U.S. WELL NUMBER: 47-069-00336-00-00

Horizontal 6A New Drill

Date Issued: 4/7/2022

### 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**

- 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.
- 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.

WW-6B (04/15) API NO. 47-0099 - 00336

OPERATOR WELL NO. Timmy Minch OHI 10H

Well Pad Name: Timmy Minch OHI

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

1) Well Operat	or: SWN P	roduction (	Co., LLC	4945	12924	069-Ohio	6-Triade	374-Wheeling
S. 10 Etc. 54 Tem.				Oper	ator ID	County	District	Quadrangle
2) Operator's V	Well Number	: Timmy M	inch OHI	10H	_ Well Pa	d Name: Timr	my Minch Ol	41
3) Farm Name	/Surface Owr	ner: Timmy B.	Minch & Amy	L. Minch	Public Roa	ad Access: Bro	owns Run R	oad
4) Elevation, c	urrent ground	1: 1208'	El	levation	, proposed	post-construct	tion: 1208'	4
5) Well Type	(a) Gas Other	×	_ Oil _		Und	lerground Stora	ige	
	(b)If Gas	Shallow	х		Deep			
6) Existing Pac	i: Yes or No	Horizontal Yes	X		-	Mak	2/23/200	7
7) Proposed Ta	-					and Expected I	Pressure(s):	ssociated Pressure- 4094
8) Proposed To	tal Vertical I	Depth: 627	76'					
9) Formation	t Total Vertic	al Depth:	Marcellus	S				
10) Proposed T	Total Measure	ed Depth:	20252'	1				
11) Proposed F	Horizontal Le	g Length:	11975.6'	140				
12) Approxima	ate Fresh Wat	er Strata De	epths:	306'	1			
13) Method to	Determine Fr	esh Water l	Depths:	Salinity	Profile			RECEIVED
14) Approxima	ate Saltwater	Depths: _6	338'- Salin	ity Prof	ile 🗸		M.A	R 4 2022
15) Approxima	ate Coal Seam	Depths: 4	170'		/		WIA	
16) Approxima	ate Depth to P	ossible Voi	id (coal m	ine, kar	st, other):	Possible Void	1470' Environ	Department of mental Protection
17) Does Propo directly overly					es	Ne	o <u>x</u>	
(a) If Yes, pro	ovide Mine Ir	ıfo: Name	::					
		Depth	n:					
		Seam	:					
		Owne	r:					

API NO. 47- 009

OPERATOR WELL NO. Timmy Minch OHI 10H

Well Pad Name: Timmy Minch OHI

18)

### CASING AND TUBING PROGRAM

ТҮРЕ	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#	20252'	20252'	Lail 3780sx/ 100 Inside Intermediate
Tubing			1				
Liners							H

MAK 2/33/2002

ТҮРЕ	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:		

WW-6B	
(10/14)	

OPERATOR WELL NO. Timmy Minch OHI 10H
Well Pad Name: Timmy Minch OHI

19)	Describe proposed we	I work, in	ncluding the	drilling and p	lugging ba	ack of any	pilot hole:
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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 til storage tanks. Max press and anticipated max rate- 9000 lbs @ 100 barrels a minute.

- 21) Total Area 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:

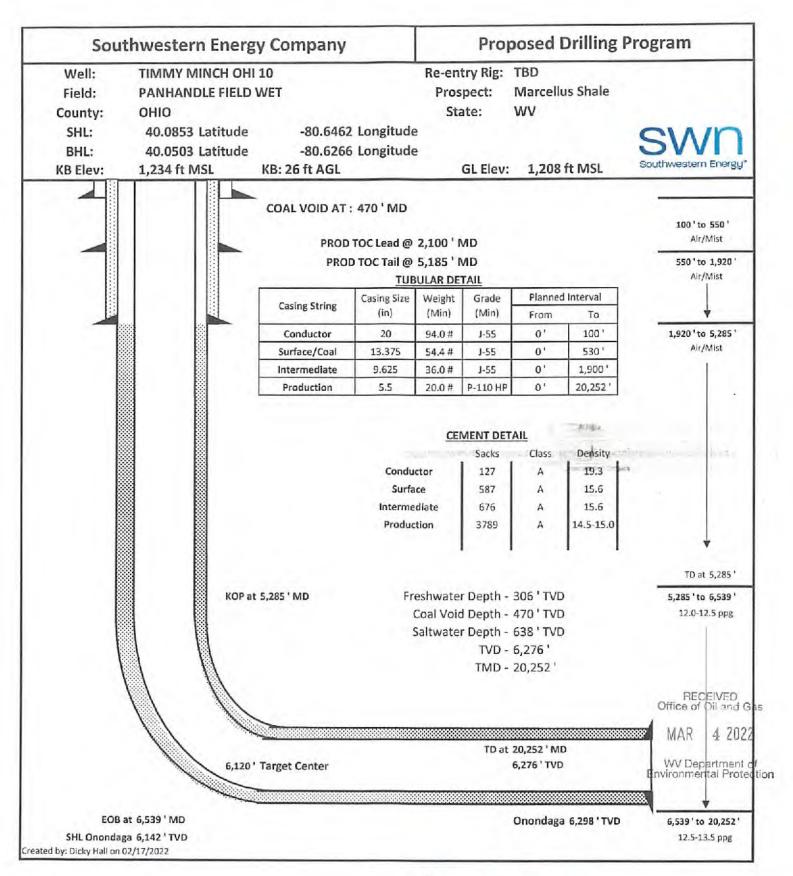
All boreholes will be conditioned with circulation and rotation for a minimum of one bottoms up and continuing until operator is satisfied with borehole conditions.

\*Note: Attach additional sheets as needed.

			NEWTIER			
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE (FRESHWATER)	><	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
up to 3%	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION	> <	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
up to 3%	5001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
	D020	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D047	FP 28L	><	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
INTERMEDIATE	><	INTEGRA SEAL	C1600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	CemNet	> <	><	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
		$\overline{}$	CJ111	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
. 41	> <	5S-11W	CJ880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	D047	FP 28L	$\times$	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	> <	> <	CJX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
	$\overline{}$	> <	CJ540	HP FLUID LOSS ADDITIVE	ALIPHATIC AMIDE POLYMER	PROPRIETARY
PRODUCTION	D255	$\supset$	$\times$	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETARY
			CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
		FL-66	CJ501	LOW TEMP FLUID LOSS ADD	POWDERED POLYSACCHARIDE	PROPRIETARY
		BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	$\times$	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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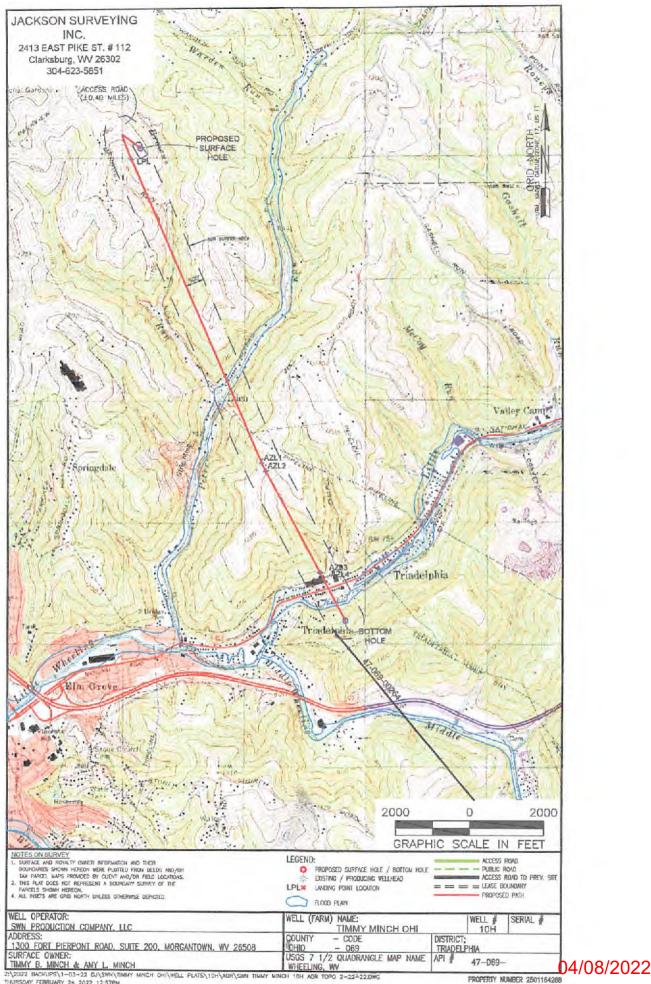
MAR 4 2022



Mar 2/23/2002

API	Operator	Status	Latitude	Longitude	Vertical TD	Producing Form
47-069-00264	SWN PRODUCTION COMPANY, LLC	Active	40.029970	-80.60793	6365	Marcellus

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MAR 4 2022
www Department of Environmental Protection



API Number	47 -	069		-	
One	entor!	Well	Ma	T	immy Minch Old 10H

### 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 anticpiated well  Off Site Disposal (Supply form WW-9 for disposal location)	
Other (Explain recovery and solidification on site	
With I 11 Yes See Attachment 3A	
Will closed loop system be used? If so, describe: Yes- See Attachment 3A	All a second delicities of the George
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc.	KOP, fluid drill with SOBM from KOP to TD
-If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base	
Additives to be used in drilling medium? Attachment 3B	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)	
-Landfill or offsite name/permit number? Meadowfill SWF-1032, Short Creek SWF-1034, Carbon Limestone MSW	L018781, Wetzel County 1021
Apex Sanitary Landtill Ub-U8438, Brooke Co SWF-1013,  Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associate	ed waste rejected at any
West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the perm where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENERAL WATER PO on August I, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Prote provisions of the permit are enforceable by law. Violations of any term or condition of the general per law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and am familiar with the info application form and all attachments thereto and that, based on my inquiry of those individuals in obtaining the information, I believe that the information is true, accurate, and complete. I am awar penalties for submitting false information, including the possibility of fine or imprisonment.  Company Official Signature Buttley Water Company Official Signature Buttley Com	ction. I understand that the mit and/or other applicable ormation submitted on this neediately responsible for a that there are significant  Office of Oil and Gas
Company Official (Typed Name) Brittany Woody	MAR 4 2022
Company Official Title Senior Regulatory Analyst	WV Department of Environmental Protection
17th	Environmental
Subscribed and sworn before me this // day of February , 20 22	
Notary Public	REID CROFT
My commission expires 8/21/2024	Notary Public Official Seal State of West Virginia
	47 Sparrow Q4 108 120 226508

Proposed Revegetation Treatment: Acres Disturbed	13	Prevegetation pl	·	
Limeas determined by pH test min.2 Tons/acre or to co	orrect to pH 4.8			
Fertilizer type 10-20-20				
Fertilizer amount 600/500	lbs/acre			
Mulch_ Hay/Straw	Tons/acre			
	Seed Mixtures			
Temporary		Perma	inent	
Seed Type Ibs/acre Attachment 3C		Seed Type	lbs/acre	
	land application (unless	engineered plans inclu	ding this info have	been
Maps(s) of road, location, pit and proposed area for rovided). If water from the pit will be land applied, creage, of the land application area.	include dimensions (L	engineered plans includ x W x D) of the pit, and	ding this info have d dimensions (L x	been W), and are
Maps(s) of road, location, pit and proposed area for rovided). If water from the pit will be land applied, creage, of the land application area.  Thotocopied section of involved 7.5' topographic she	include dimensions (L	x W x D) of the pit, and	ding this info have I dimensions (L x	W), and are
Maps(s) of road, location, pit and proposed area for rovided). If water from the pit will be land applied, creage, of the land application area.  hotocopied section of involved 7.5' topographic she	include dimensions (L	x W x D) of the pit, and	dimensions (L x	W), and are
Maps(s) of road, location, pit and proposed area for rovided). If water from the pit will be land applied, creage, of the land application area.  Thotocopied section of involved 7.5' topographic sheet land approved by:	include dimensions (L	x W x D) of the pit, and	I dimensions (L x	W), and are
Maps(s) of road, location, pit and proposed area for rovided). If water from the pit will be land applied, creage, of the land application area. Photocopied section of involved 7.5' topographic she land Approved by:	include dimensions (L	x W x D) of the pit, and	I dimensions (L x	W), and are
Maps(s) of road, location, pit and proposed area for rovided). If water from the pit will be land applied, creage, of the land application area.  Thotocopied section of involved 7.5' topographic sheet land approved by:	include dimensions (L	x W x D) of the pit, and	Office of MAR	W), and are
Maps(s) of road, location, pit and proposed area for rovided). If water from the pit will be land applied, creage, of the land application area. Photocopied section of involved 7.5' topographic she land Approved by:	include dimensions (L	x W x D) of the pit, and	Office of MAR	W), and are
Attach: Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied, creage, of the land application area. Photocopied section of involved 7.5' topographic sheet and approved by: Comments:	include dimensions (L	x W x D) of the pit, and	Office of MAR	W), and are

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

### LIQUIDS DRILLING (FRESHWATER, BRINE, SOBM)

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

Office of Oil and Gas

MAR 4 2022

### 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

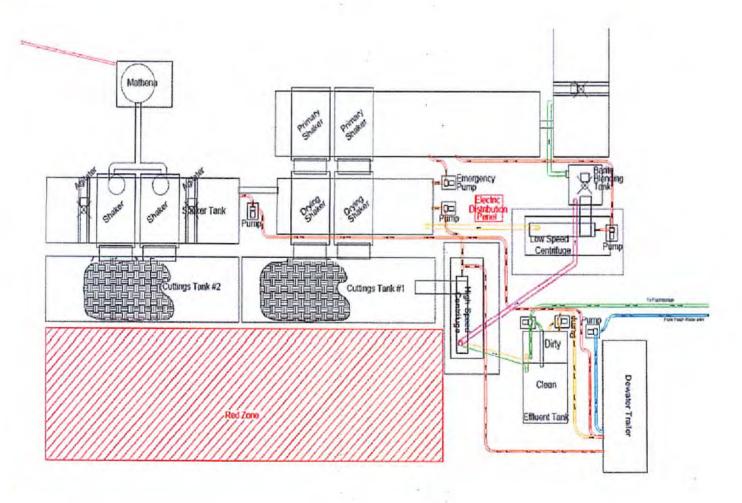


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### Solids Control Layout









### **WVD Seeding Specification**



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%	All legumes are	
White Clover	5%	innoculated at 5x normal	
Birdsfoot Trefoil	5%	rate	
Rough Bluegrass	5%		
Apply @ 100lbs per acre April 16th- Oct. 14th	Offic	Apply @ 200lbs per acre Oct. 15th- April 15th PLUS 50lbs per acre of Winter Wheat	

SOIL AMENDMENTS	D <sub>0</sub>	20	c m
10-20-20 Fertilizer	pari	1	*Apply @ 500lbs per Acre
Pelletized Lime	Pre	20	Apply @ 2 Tons per Acre
	ote ote	122	n *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		Apply @ 200lbs per acre	
April 16th- Oct. 14th		Oct. 15th- April 15th	
Organic Fertilizer @ 200lbs per Acre		Pelletized Lime @ 2 Tons per Acre	

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	Apply @ 50lbs per acre
it 16th- Oct. 14th	Oct. 15th- April 15th
NO FERTILIZER OR I	IME INSIDE WETLAND LIMITS

## 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 10H Wheeling QUAD Triadelphia DISTRICT OHIO COUNTY, WEST VIRGINIA

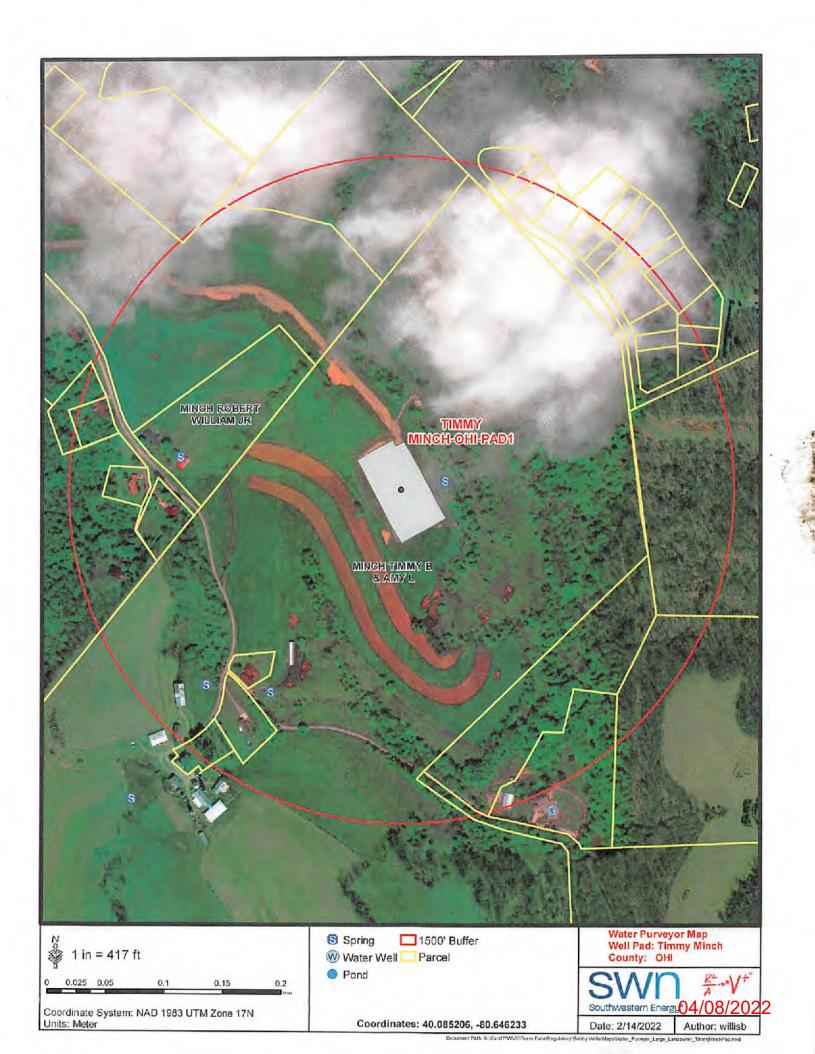
	,
Submitted by:	
Name: Brittany Woody  Suttony Woody	Date: <u>2/8/2022</u>
Title: Senior Regulatory Analyst	SWN Production Co., LLC
Approved by:	
Name: Hayul Kuto	Date: 2 23 2022
Title: The pecter	_
Approved by:	RECEIVED Office of Oil and Ga

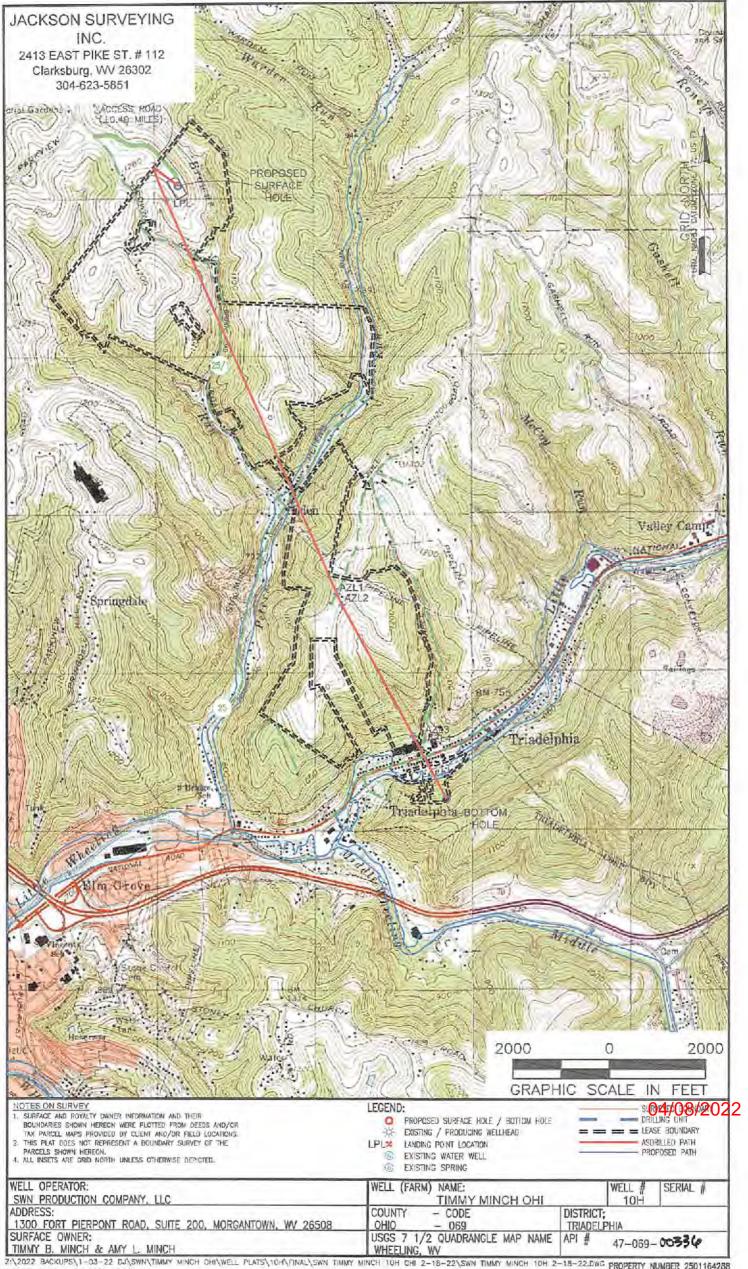
SWN PRODUCTION COMPANY, LLC - CONFIDENTIAL

Name:\_\_\_\_

Title:

MAR 4 2022





O 108

"o"

Latitude: 40'05'00"

GRID NORT

S

SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, N NORTHING: 4,437,285,964 EASTING: 530,162.167

LANDING POINT LOCATION (LPL): UTM (NADBS, ZONE 17, METERS): NORTHING: 4,437,195.621 EASTING: 530,086.830

AZIMUTH POINT LOCATION-1 (AZL1):

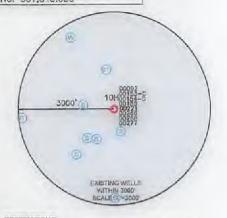
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,434,703.839 EASTING: 531,158.034

AZIMUTH POINT LOCATION-2 (AZL2): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,434,632,446 EASTING: 531,190,592

AZIMUTH POINT LOCATION-3 (AZL3):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,433,806.991
EASTING: 531,637.524
AZIMUTH POINT LOCATION-4 (AZL4):
LTM (NAD93, ZONE 37, METERS):

UTM (NAD83, ZONE 17, METERS): NORTHING: 4,433,801.182 EASTING: 531,640.642

BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,433,411.131 EASTING: 531,848.035



WELL RESTRICTIONS

WELL RESIDENTIONS

1. NO OCCUPIED DWELLINGS > 2500 SQ FT, WITHIN 625 FEET OF CENTER OF FAME.

2. NO AGRICULTURE BUILDINGS > 2500 SQ FT, WITHIN 625 FEET OF CENTER OF FAME.

3. WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.

4. PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100. FEET OF THE LIMITS OF DISTURBANCE.

5. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

6. NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR NOTES ON SURVEY.

PUBLIC WATER SUPPLY.

NOTES ON SURVEY

1. SURFAGE AND ROYALTY OWNER INFORMATION AND THEIR
BOUNDAMES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR
TAX PARCEL MAPS PROMOED BY CLIENT AND/OR FIELD LOCATIONS.

2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE
PARCELS SHOWN HEREON.

4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

5. CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS
ALL THE INFORMATION REQUIRED BY LAW AND REQULATIONS ISSUED
AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

David I Jackson (+) DENOTES LOCATION OF WELL ON MINIMUM UNITED STATES TOPOGRAPHIC MAPS

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

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

DEEP

No. 708 \* STATE OF SOLUTION OF VIRGINIA SUMMER STATE OF SOLUTION OF VIRGINIA SUMMER SOLUTION OF VIRGINIA SUMER SOLUTION OF VIRGI ACCURACY:

API WELL #:

COMPANY:

OPERATOR'S WELL #:

LIQUID INJECTION

47 STATE

ELEVATION: 1208.1"

ACREAGE: ±254.38

ACREAGE: ±254.38

069 COUNTY

SHALLOW X

WASTE DISPOSAL WATERSHED: BROWNS RUN OF PETERS RUN OF WHEELING CREEK (HUC-10) DISTRICT: TRIADELPHIA

COUNTY: OHIO

PRODUCTION

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

DESIGNATED AGENT: BRITTANY WOODY

FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION

DRILL DEEPER CONVERT

REDRILL PLUG & ABANDON

SURFACE OWNER: TIMMY B. MINCH & AMY L. MINCH

CLEAN OUT & REPLUG

OTHER CHANGE (SPECIFY)

GAS X

ESTIMATED DEPTH: 6,276 1VD 20,252 1MD

TARGET FORMATION: MARCELLUS WELL OPERATOR: SWN PRODUCTION COMPANY, LLC

ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 STATE: WV ZIP CODE: ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 CITY: MORGANTOWN

ZIP CODE: 26508 STATE: WV

CITY: MORGANTOWN LEGEND:

PROPOSED SURFACE HOLE / BOTTOM HOLE EXISTING / PRODUCING WELLHEAD

LPL# LANDING POINT LOCATION EXISTING WATER WELL EXISTING SPRING

SURVEYED BOUNDARY DRILLING UNIT PROPOSED PATH AZLX AZIMUTH POINT LOCATION REVISIONS: DATE: 02-18-2022 DRAWN BY: N. MANO SCALE: 1" = DRAWING NO: WELL LOCATION PLAT

LZ:\2022 BACKUPS\1-03-22 DJ\SWN\TIMMY MINCH DHI\WELL PLATS\10H\FINAL\SWN TIMMY MINCH 10H CHI 2-18-22\SWN TIMMY MINCH 10H 2-18-22.DWG PROPERTY NUMBER 2501164288 FRIDAY FEBRUARY 18 2022 11:17AM PAD ID 3001155608

12,020 NTS HOLE BOTTOM 14458 HOLE

BOTTOM HOLE 454'

DESCRIPTION
SHL TO LANDMARK
SHL TO LANDMARK
AZL3 TO AZL4
AZL4 TO BHL MONUMENT 1416.84 L1 N 11'24'22 FD. 5/8" REBAR FD. 5/8" REBAR 1449.34

LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 39'49'30" W	385.94'	1298,15	SHL TO LP
L4	S 25'49'46" E	260.23'	260,31	AZL1 TO AZLZ

BHL

80.37,30"

SURFACE

80.37,30

.ongitude:

2000

0 2000 GRAPHIC FFFT SCALE IN

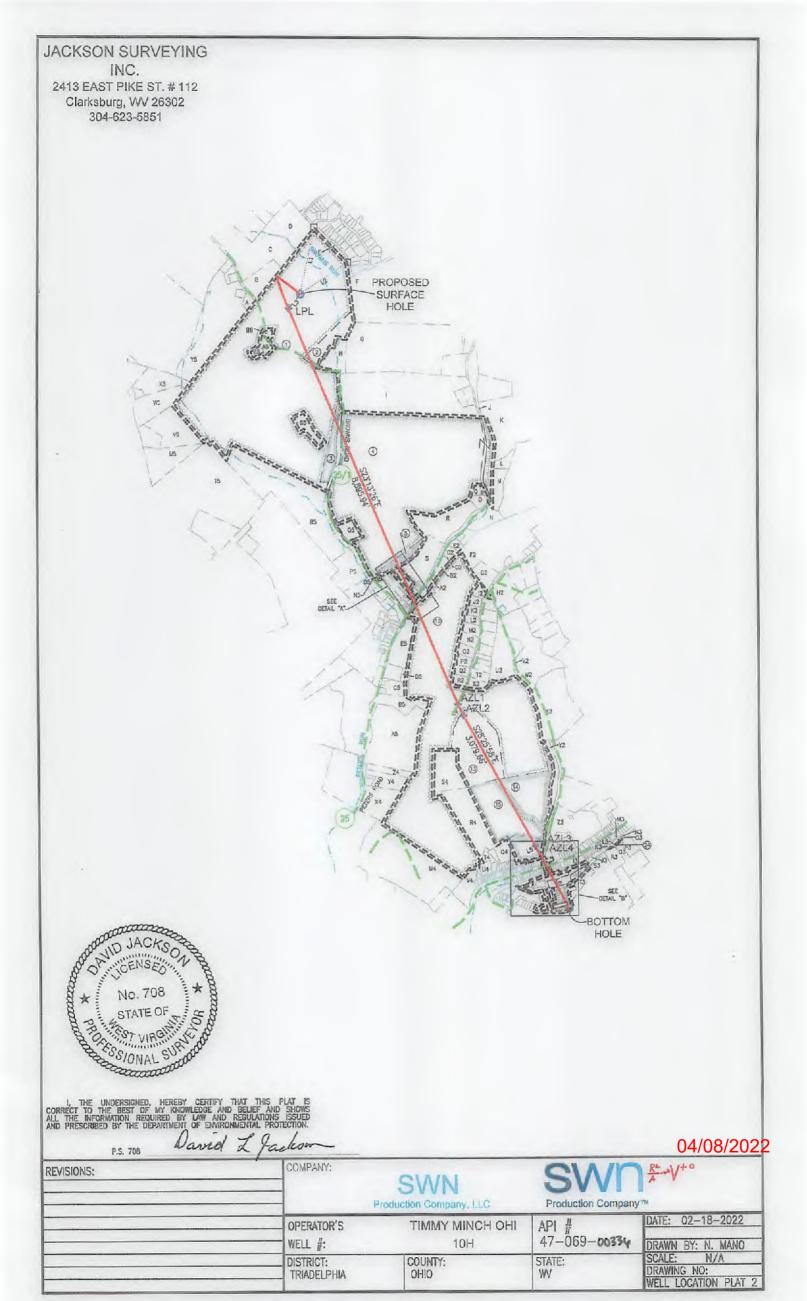
Production Company, LLC Production Company™ TIMMY MINCH OHI 10H

STORAGE

QUADRANGLE: WHEELING, WV

00334

PERMIT



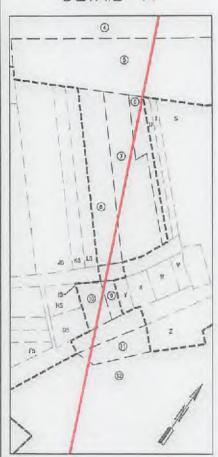
### JACKSON SURVEYING

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

	WELL BORE TRACTS	
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	MINCH TIMMY B & AMY L (S/R)	5-T2-18
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	POCKL RONALD J (S)	6-T2-20.1
3	DRUM WILLIAM A & CYNTHIA E (S)	6-T2-19.1
4	DICKERSON CYNTHIA ANN ET AL (5)	6-TZ-22
5	POWELL JAMES E JR & MARY A-LE POWELL J; POWELL M; BRAMAN M(S)	6-T7-18D
6	HARVEY CHASE M (S)	5-T7C-3
7	WARD CHRISTIE L (5)	6-T7C-5
8	WARD CHRISTIE L(S)	6-T7C-6
9	MCLAUGHUN HENRY & JANICE (S)	6-T7C-17
10	MCLAUGHLIN HENRY & J (S)	6-T7G-1
11	HARRIS DONALD JEFFERY (S)	6-T7-147
12	LUCKY FARMS LLC (S)	6-T7-163
13	LUCKY FARMS KENNEL LLC (S)	6-T7-163.22
14	EDGE EDWARD M & CHRISTINE B (S)	6-17-165
15	OHIO VALLEYIND & BUS DEV CORP (S)	6-T7-166.1
16	OHIO VALLEYIND & BUS DEV CORP (S)	7-TW4-8
17	YE OLD TRADERS INC (S)	7-TW4-23
18	WV DEPARTMENT OF TRANSPORTATION (S)	US RT. 40
19	TOWN OF TRIADELPHIA (S)	7-TW4-77
20	MIDTOWN MOBILE HOMES INC (S)	7-TW4-93
21	TEMPLIN TIMT (S)	7-TW4-126.1
22	MIDTOWN MOBILE HOMES INCTEMPLIN TIME & PATRICIA A (S)	7-TW4-126
23	MIDTOWN MOBILE HOMES INC (1/2) TEMPLIN TIM & PATRICIA (1/2) (S)	7-TW4-123
24	MIDTOWN MOBILE HOMES INC (1/2) TEMPLIN TIM & PATRICIA (1/2) (5)	7-TW4-128

### DETAIL "B"

### DETAIL "A"



P.S. 708



SONAL SURGOOD David I Jackon

04/08/2022

COMPANY: REVISIONS: SWN Production Company, LLC Production Company™ DATE: 02-18-2022 OPERATOR'S TIMMY MINCH OHI API # 47-069-00334 WELL #: DRAWN BY: N. MANO SCALE: N/A DISTRICT: TRIADELPHIA STATE: SCALE: N/A
DRAWING NO:
WELL LOCATION PLAT COUNTY: OHIO

### JACKSON SURVEYING INC.

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

	ADJOINING OWNERS TABLE	
RACT	SURFACE OWNER	TAX PARCEL
A	MIN CH TIMMY B & AMY L	4-R17-58.1
В	MINCH ROBERT WILLIAM JR MINCH BARBARA JEAN	4-R17-57.2
C.	MINCH ROBERT WILLIAM JR MINCH HERBERT PAUL	4-R17-57
D	NUTTING G OGDEN TRUST	4-R17-57.1
E	VEMURI HOME & GARDEN LLC	4-R17H-1
F	HALL EULA BERNICE	4-R18-3
G	HATCHER EDWARD A SR	6-T2-21,4
H	WOJCHOWSKI MORGAN A	6-T2-20
1	HATCHER EDWARD A	5-T2-21
1	NEUMAN MICHAELC & COCHRAN SARAH	6-T2-21,1
K	NEUMAN MICHAEL C & COCHRAN SARAH	6-T2-25
0	LAUDERMILT GARY E & MA	6-T2-26.1
M	LAUDERMILT MARY A & G E	6-12-26
N	CROFT REVOCABLE TRUST	6-T7-139
0	JONES LAMBERT	6-T2-24.1
Р	CROFT SAMUELE & ROSE M TRUST CROFT SAMUEL E & ROSE M; TEES	6-T2-24
Q	CROFT SAMUEL & ROSE	6-T2-24.2
R	SAPORITO MICHAELA & RAEL	6-T7-136
S	POWELL JAMES E JR & MARY A-LE POWELL J; POWELL M; BRAMAN M	6-T7-137
T	WARD CHRISTIE L	6-T7C-1
Ü	WARD CHRISTIE L	6-T/C-2
V	CHAPLINE RICHARD L HARRIS DONALD N &J	6-T7C-13.1
W	HARRIS DONALD N & J A	6-T7C-13
X	HARRIS DONALD N & JOYCE A	6-T7C-14
Y	WOOD V L & J L (LC- BYRS) DUMAS LILA MAE (LC-SLR)	6-17C-16
Z	HARRIS DONALD JEFFERY	6-170-16
7.25	SCHMID DAVID J& ET	6-17-145
A2		
B2	PAPADIMITRIOU KATHERINE M	6-17-145
C2	FIGARETTI KATHERINE MANTHONY F	6-T7-143.1
DZ	FIGARETTI KATHERINE M & ANTHONY F	6-T7-143
E2	LAUDERMILT MARY ANN & GARY E SR	6-77-142
F2	COREY MICHAEL & TIERRA	6-T7-158
G2	HEARN LYLE & KIMBERLIE	5-T7-173
H2	BOYD CECELIA	5-77-172
12	HANSON AUGUST J & USA M	6-T7-163.20
J2	GALBREATH ROBERT W & DEBRA J	6-T7-163.11
K2	GRIFFIN DANIEL L & SARA C	5-T7-163.5
12	KENT ROGER LJR & MELINDA J	6-17-163,15
M2	KENT ROGER LUR AND MELINDA J	6-T7-163,18
N2	FULLERTON TODD	6-17-163,16
02	TUCKER ROBERT M & REBECCA E	6-T7-163,12
F2	GAUDINO GREGORY A & ANNETTE M	6-T7-163.13
Q2	KHALILBUSAINA	6-T7-163.7
R2	KHALIL BUSAINA	5-17-163.5
S2	GEORGE GREGORY P JR	6-T7-163.21
TZ	SIMMS JAMES	6-T7-163.17
U2	BLISS CHARLIE A SR & MARY E	6-T7-164
V2	BLISS CHARLIE A SR & MARY E	6-T7-164.1
W2	ABUNDANT LIFE BAPTIST CHURCH ET AL	6-T7-172.17
Х2	ABUNDANT LIFE BAPTIST CHURCH ET AL	6-T7-172.14
Y2	BRINKMEIER WILLIAMJAY	6-T7-165.1
22	BRINKMEIER WLJAM J	6-T7-177
A3	TOWN OF TRIADELPHIA	7-TW4-23.1
B3	YE OLDE TRADERS INC	7-TW4-23,2
C3	TOWN OF TRIADELPHIA	7-TW4-24
D3	RODGERS CLINTON K & TRACY L	7-TW4-76
E3	HOWARD W LONG WV LLC	7-TW4-75
F3	HOWARD W LONG WY LLC	7-TW4-74
G3	COFFIELD PROPERTIES LLC	7-TW4-131
НЗ	TEMPLINTIMT	7-TW4-71
13	TEMPLIN FRED G	7-TW4-70
13	KNOLLINGER KATHYRN M	7-TW8-75
КЗ	MARLIN DOUG & LEXANNE	7-TW4-94
13	BONACCI RENTALS LLC	7-TW4-95
MB	BONACCI RENTAL LLC	7-TW4-56.1
N3	COOPER WILLIAM C	7-TW4-96
03	WCGING	The second section is a second
P3		7-TW4-97
_	ROBINSON AUGUST FRANKLIN	6-T8-43,4
Q3	ROBINSON JOYCE	6-78-43,2
R3	PARSONS JAMES	6-T7-182
53	OHIO COUNTY COMMISSION	6-T12-53
T3	MIDTOWN MOBILE HOMES INC (1/2) TEMPLIN TIM & PATRICIA (1/2)	7-TW4-129

	ADJOINING OWNERS TABLE	
RACT	SURFACE OWNER	TAX PARCE
V3	MIDTOWN MOBILE HOMES IN CTEMPLIN TIM T & PATRICIA A	7-TW4-126
W3	MIDTOWN MOBILE HOMES INC (1/2) TEMPLIN TIM & PATRICIA (1/2)	7-TW4-122
X3	MIDTOWN MOBILE HOMES INC (1/2) TEMPLIN TIM & PATRICIA (1/2)	7-TW4-121
Y3	STARKEY OPHIE E & R S	7-TW4-124
23	MIDTOWN MOBILE HOMES INC (1/2) TEMPLIN TIM & PATRICIA (1/2)	7-TW4-133
A4	SHAW JAMES AND MARY ANN	7-TW4-98
B4	BLEIFUS TIRE SERVICES INC	7-TW4-88
C4	BLEIFUS TIRE SERVICE INC	7-TW4-92
D4	ACQUISITIONS LLC	7-TW4-83
E4	ACQUISITIONS LLC	7-TW4-82
F4	KENT ROGER LSR & VIRGINIA M KENT ROGER LJR & MELINDA	7-TW4-81
G4	KENT ROGER L SR & VIRGINIA M KENT ROGER LJR & MELINDA	7-TW4-80
H4	KENT ROGER LSR & VIRGINIA M KENT ROGER LJR & MELINDA	7-TW4-79
14	TOWN OF TRIADELPHIA	7-TW4-78
J4	TRIADELPHIA UNITED METHODIST CHURCH TRUSTEES	7-TW4-22
K4	MAXWELL JASON W	7-TW4-21
L4	TRIADELPHIA UNITED METHODIST CHURCH TRUSTEES	7-TW4-20
M4	TRIADELPHIA UNITED METHODIST CHURCH TRUSTEES	7-TW4-19
N4	PERSONNELINC	7-TW4-18
Q4	PERSONNELINC	7-TW4-18.1
P4	KAVANAS JERRY P ESTATE	7-TW4-130
Q4	KAVANAS JERRY (EST) & ANN M	7-TW4-5
R4	MIDDLE CREE ( GARAGE INC	7-T7-166
S4	GEORGE GREGORY J & JENNIFER S	7-17-163.19
T4	HUTCHISON AMY JO	7-TW1-1.1
U4	WOODROW J KNOLLINGER REV TRUST, ET AL	7-TW1-3.2
V4	MIDDLE CREEK GARAGE INC	7-TW1-9
W4	LUCKY FARMS LLC	6-T12-5
X4	OCH DANIEL F	6-T7-156
Y4	FITZPATRICK CINDY L & THOMAS W	6-17-153
Z4	HULS TERESA GELLNER	6-17-152
A5	RICKER WILLIAM R AND KATHY L	6-T7-150
B5	CRISWELL JOHN T	6-T7-150.1
C5	CRISWELL JOHN T	6-T7-148.1
D5	WALTER GARY R & SUSAN L	6-T7-148
E5	MOORE STEVEN A & USA K	6-T7-148,2
F5	WENZEL REGIS G & J R	6-T7G-4
G5	HEATHJAMES L	6-T7G-3
H5	HEATH JAMES L	6-T/G-3.1
15	MCLAUGHLIN HENRY	6-17G-3.2
J5	THOMAS MICHAELJ	6-T7C-10
K5	ADAMS CHARLES A & A M	6-T7C-9
15	ADAMS CHARLES A	6-T7C-8
M5	STRADA JEFFREY M & LINDA F	6-T7C-11
N5	STRADA JEFFREY M & LINDA F	6-T7C-11.1
05	BAUER HOLLY K & PAUL M	6-T7-112.1
P5	FRITTER RALPH LEE II FRITTER MEUSSA EDITH	6-17-111
Q5	ORUM M D 6/91NT, W 8 ORUM 1/9 K D ORUM 1/9 & J E ORUM 1/9	6-17-135.1
R5	ORUM WILLIAM A & CYNTHIA	6-T7-178
\$5	JUNIPER LODGE INC	6-T2-19
T5	WHEELING PARK COMMISSION	6-T7-95
U5	DANEHART LUANN AND ARTHUR WJR	6-T2-16.2
V5	VILLANOVA DONALD G AND BECKY J	6-T2-16
W5	VILLANOVA DONALD G AND BECKY J	6-T2-15.2
X5	FRANKE RODD A & USA R	6-T2-15.3
Y5	MONFRADI CHARLES AND DOLORES	4-R17-58
25	MINCH TIMMY B & AMY L	4-R17-63
AG	MINCH DANNY AND GINA	4-R17-61
B6	CALVERT GROVE ANDREW	4-R17-62

				04/08/202
REVISIONS:	COMPANY:	SWN Production Company, LLC	SWI Production Company	Ramby+0
	OPERATOR'S WELL #:	TIMMY MINCH OHI 10H	API # 47-069-00336	DATE: 02-18-2022
distance of the second	DISTRICT: TRIADELPHIA	COUNTY: OHIO	STATE: WV	DRAWN BY: N. MANO SCALE: N/A DRAWING NO: WELL LOCATION PLAT 4

WW-6A1 (5/13)

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

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

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

Lease Name or
Number Grantor, Lessor, etc. Grantee, Lessee, etc. Royalty Book/Page

### SEE EXHIBIT "A"

\*Co-tenancy utilization - At least 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

RECEIVED Office of Oil and Gas

MAR 4 2022

WV Department of

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:	The Now	S. Series			
Its:	GAVIN NADEAU, RPL				
	LANDMAN				

Page 1 of

EXHIBIT "A"  Thung Minch OH 19H  Ohlo County, West Virginia  Anached to and made a part of the State of West Virginia OH and Oss Permit Form, WW-6A1, by SWN Production Company, LLC., Operator							
	TMP	LESSOR	LESSER	ROYALTY	шкле	% INTEREST NOT LEASED BY SWN PRODUCTION COMPANY, LLC	
17		Howard L., Minch, and Beverly G. Minds, husband and wife	Oreat Lakes Energy Partners, L.L. C.	12.50%	776/391	0.00%	
			Chesapeake Appalathia, L.L.C. SWN Production Company, LLC		808/418 883/192	nam.	
2)	06-0072-0020-0001		SWN Production Company, LLC	12 00%	947/695		
		David A Heal	SWN Production Company, LLC SWN Production Company, LLC	18.00%	948/46		
		Alfred W Wagner	SWN Production Company, LLC	18.00%	959/310		
		Burbura Prohaska	SWN Production Company, LLC	18.00%	959/317		
		Gregory M. Bratt Dwid B. Kader	SWN Production Company, LLC SWN Production Company, LLC	18.00%	959/356 959/363	0.00%	
		John W. Bratt	SWN Production Company, LLC	18,00%	959/625		
		Pmil Scott Wagner	SWN Production Company, LLC	18,00% 18,00%	959/648 959/655		
		Christine Bray Zemoch Barbare Gilmertin	SWN Production Company, LLC SWN Production Company, LLC	18,00%	960/203		
		Rockine D. Ehlle and Nancy J. Kadar, hasband and wife	SWN Production Company, LLC	18.00%	960/191		
3.	06-0072-0019-0001	Alitest J. Kadur and Rose Marie Katha, Lusto and and wife William A. Command Cyothia E. Oram, busband and wife	SWN Production Company, LLC NPAR, LLC	18.00%	961/336 810/97		
31	09-0012-0019-0001	William A. Chin and Cynnia D. Charle I mount and wife	Chesron U.S.A. Inc.	40.0070	827/269	n orns	
			Chesapeaire Appalachia, L. L.C.		867/713		
41	06-00T2-0022-0000	Purh Stall widow	SWN Production Company, LLC NPAR, LLC	18.00%	885/320 814/339		
41	00-0012-0022-0000	Date Care Washing	Chevron U.S.A. Inc.		927/284	0.00%	
			Chesapeake Appalachia, L.L.C.		858/359 885/296		
50	06-0017-0180-1900	Bounty Minerals, LLC	SWN Production Company, LLC SWN Production Company, LLC	18.00%	938/777	0.00%	
6)	36-0T7C-0003-0000	Jerome S. Smith, Dk/a Jerome Seibert, single	SWN Production Company, LLC	16.00%	922/448		
		Albert W. Selbert, III, married George H. Seibert, III and Karen A. Seibert, husband and wate	SWN Production Company J.J.C	16.00%	922/458 922/458		
		George H. Sjalzerl, III and Karen A. Stoberl, husband and wate.  Sue Seibert Farnsworth, adva Nancy Sue Seibert Farnsworth, widow	SWN Production Company, LLC SWN Production Company, LLC	16.00%	922/438	0.07%	
		James E. Seibert, married	SWN Production Company, LLC	16,00%	922/191	0.07%	
		Heather L. Keller, n.k/a Heather L. Gear, married	SWN Production Company, LLC	16.00%	985/56		
		Sally Cornell, Dk'a Sally Seibert, widow  Grace Seibert-Larke, a married woman dealing in her sole and separate property	SWN Production Company, LLC SWN Production Company, LLC	18.00%	985/14		
7)	06-0T70-0005-0000	Jerome S. Smith, fik's Jerome Seibert, single	SWN Production Company, LLC	16.00%	922/448		
		Albert W. Scibert, III married George H. Seibert, III and Karen A. Seibert, husband and wife	SWN Production Company, LLC SWN Production Company, LLC	16.00% 16.00%	922/458 922/468		
		Sub Seibert, III and Karen A. Seibert, misband and wife Sub Seibert Farreworth, alk/n Nancy Sub Seibert Farrisworth, widow	SWN Production Company, LLC SWN Production Company, LLC	16.00%	922/438	0.00%	
		James E. Seibert, married	SWN Production Company/LLC	16,00%	972/494		
		Sally Cornell, 5k/a Sally Seibert, widow  Lione Seideniel ache, a sourced woman dealing in her sale and separate property	SWN Production Company, LLC SWN Productor Company, LLC	18.00% 18.00%	986/45 985/14		
81	06-017C-0006-0000		SWN Production Company, LLC	16.00%	922/448		
		Albert W. Seibert, III. married	SWN Production Company, LLC	T6.00%	922/458		
		George H. Seibert. III and Karen A. Seibert, husband and wife.  Sue Seibert Farnsworth, alk/a Nancy Sue Seibert Farnsworth, widow	SWN Production Company, LLC SWN Production Company, LLC	16.00%	922/488 922/438	0.00%	
		James E. Seibert, married	SWN Production Company, LLC	16.00%	922/494		
		Sally Cornell. Dk/a Sally Seibert, widow	SWN Production Company, LLC	18.00%	986/45		
9)	06-0T7C-0017-0000	Grace Seibert-Larke, a matried woman dealing in her sole and separate property  Jerome S. Smith, Ok/a Jerome Seibert, single.	SWN Production Company, LLC SWN Production Company, LLC	18.00%	985/14 922/448		
71	08/01/03/01/10/00/	Albert W. Seibert, III, married	SWN Production Company, LLC	16,00%	922/458		
		George H. Seibert, III and Karen A. Seibert, husband and wife	SWN Production Company, LLC	16.00%	922/458	1.00	
		Sue Seibert Farnsworth, a L/a Nancy Sue Seibert Farnsworth, widow Janues E. Seibert, married	SWN Production Company, LLC SWN Production Company, LLC	16,00% 16,00%	922/438	0.00%	
		Sally Cornell, Dk/a Sally Seibert, without	SWN Production Company, LLC	18.00%	986 13	i.e	
1751	06 017G-0001 0009	Crace Serbert-Larke, a married woman dealing in her sole and separate property.  Jerome S. Smith. 196/a Jerome Seibert, single	SWN Production Company, LLC	18.00%	983/14		
171	06 01/15 0001 000	Albert W. Seibert, III. married	SWN Production Company, LLC SWN Production Company, LLC	16.00%	922/448 922/458		
		George H. Seibert. III and Karen A. Seibert, lassband and wife	SWN Production Company, LLC	16.00%	922/468	252	
		Sue Seibert, Farnsworth, adda Nancy Sue Seibert Farnsworth, widow James E. Seibert, married	SWN Production Company, LLC	16.00% 16.00%	922/438 922/494	0.00%	
		Sally Cornell, 5k/a Sally Seibert, widow	SWN Production Company, LLC SWN Production Company, LLC	18.00%	936/45		
		Grace Seibert-Larke, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18,00%	985/14		
11)	06-D0T7-0147-0000	Dorald Jeffrey Hams	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.50%	827/667 885/152	0.00%	
125	06-00T7-0165-0000	John J. Carbell	NPAR, LLC	17.00%	302/181		
			Cheston U.S.A. Inc.		X27/254	0.00%	
			Chesapeake Appalachia, L. L.C. SWN Production Company, LLC.		858/759 889/796		
13)	06-00T7-0163-0022	John J. Corbett	NPAR LLC	17.00%	802/181		
			Chevron U.S.A. Inc		827/254	0,00%	
			Chesapeake Appalachia, L.L.C. SWN Production Company, LLC		858/359 885/296		
14)	06-00T7-0165-0000		N/A	N/A	N/A	22.87%	
		Adam Rogerson, a single man Ann Muldrew Tumbim, a single women	SWN Production Company, LLC SWN Production Company, LLC	14,00%	993-132 984-770		
		Barbara A. Dunn, a single woman	SWN Production Company, LLC	14.00%	978-379		
		Trachara A. Parton, a widow	SWN Freduction Company, LLC	14.00%	980-148		
		Harbara May Scott, a widow Besky Allen, a single weman	SWN Production Company, LLC SWN Production Company, LLC	14.00%	983-49		
		Betsey'R. Klein, a widow	SWN Production Company, LLC	14.00%	983-42		
		Betty Io Contreras Vann & Robert M Varm, wife and husband Betty Marie Singer Woods, a single woman	SWN Production Company, LLC	14.00%	995-187		
		Billie Jo Ruosayasta, a married woman dealing in her sole and separate property	SWN Production Company, LLC SWN Production Company, LLC	14,00%	979-702 986-138		
		Bradley A. Best & Roberts J. Best, husband and wife	SWN Production Company, LLC	14.00%	979-15		
		Brandy Thigpen, a widow  Brenda Lee Perer ark/a Brenda Lee Navarra-Perez, a married woman	SWN Production Company, LLC	14,00%	983-14	DECEMED	
		Bruce Steat & Lisa Lore Steat, bushand and wife	SWN Production Company, LLC SWN Production Company, LLC	14.00% 14.00%	998-582 1006-759	RECEIVED Office of Oil and Ga	
		Carl B. Best & Kim Best, husband and wife	SWN Production Company, LLC	14.00%	983-56	Office of Off and	
		Carol L. Wents, a married warmin dealing in her safe and separate property.  Carol L. Wiker, a single woman	SWN Production Company, LLC SWN Production Company, LLC	14.00%	931-777	. 0000	
		Cacelia M. Plea Jrini, a single assessm	SWN Production Company, LLC SWN Production Company, LLC	14.00%	1000-55	MAR 4 2022	
		Charlens L. Wise, a widow	SWN Froduction Company, LLC	14.00%	983-64	MICHIN	
		Charles Henry Altman, a single man Charles N. Winter & Nan B. Winter, husband and wife	SWN Production Company, LLC SWN Production Company, LLC	14,00%	979-275 981-374		
		Cheryl Ano Lyon, a single woman	SWN Production Company, LLC	14:00%	1000/140	WV Department	
		Constance M. Knollinger, a widow	SWN Production Company, LLC	14 00%	978-344	Environmental Prote	
		Dana A. Rothers, a single man David Herb & Annetta M Herb, husband and wife	SWN Production Company, LLC SWN Production Company, LLC	14.00%	988-203 985-475		
		David L. Best, a single man	SWN Production Company, LLC	14 00%	981-435		
		David L. Singer, Sr., a married man dealing in his sole and separate property  David R. Mulchess & Karen Mulchess Instrume and prife	SWN Production Company, LLC	14.00%	977-325		
		Delvid K. Mildrew & Karen Mildrew hostened and wife Delvid Lyun Caldwell, a single woman	SWN Production Company, LLC SWN Production Company, LLC	14 00%	079.315		
		Delva M. Singer Salkvoick, a single warran	SWN Production Company, LLC	14.00%	070.674		
		Diane II. White, a married weman dealing in her sole and separate property	SWN Production Company, LLC	14,60%	979-1		
		Dolor is Willinger, a widow  Donald P. Maille, a married man dealing in his sole and separate property	SWN Production Company, LLC SWN Production Company, LLC	14.00%	979-64 979-78		

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Many Associated orders have a section of the sectio	mpany, LLC 14.00% 998-499		Louise Eleanor Winter, a widow
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			07-0TW4-0000-0000 Chio Valley Industrial & Recinese Development Corporation
UT-01W4-0023-0000 Ye Olde Traders, Inc.  US ROUTE 40 West Virginia Department of Transportation, Division of Highways  Chesspeake Appalachia, L.L.C. 15.00% 830/1 0.00%			1174TIWA497344999 Ye Olde Traders Inc

04/08/2022

	EXHIBIT "A"  Timony Minch OH 10H  OHI County, West Virginia  Attached to and made a part of the State of West Virginia OH and GAS Fermit Form, WW-6AL by SWN Production Company, LLC., Operator								
*	TMP	LESSOR	LESSEE	ROYALTY	BK/PG	% INTEREST NOT LEASED BY SWY PRODUCTION COMPANY, I.I.C.			
19)	07-0TW4-0077-0000	The Town of Triadelphia, a West Virginia municipal corporation	SWN Production Company, LLC	16.00%	993/785	0.00%			
2/1			SWN Production Company, LLC	14.00%	980/733	0.00%			
21)			SWN-Production Company, LLC	18.00%	996/611	0,00%			
22)	97-PTWt-0126-0080	Tim T. Templin and Patricia A. Templin, husband and wife Michown Mobile Homes, Inc.	SWN Production Company, LLC	14,00%	923/85	0.00%			
23)	07-0TW4-0123-0000	Attitiown Mobile Homes, Inc. Tim T. Templin and Patricia A. Templin, his wife	SWN Production Company, LLC SWN Production Company, LLC	14.00% 18.00%	985/31 996/611	0.00%			
24)	67-0TW4-0128-0000	Michown Mobile Homes, Inc. Tim T. Templin and Patricia A. Templin, his wife	SWN Production Company, LLC SWN Production Company, LLC	14.00% 18.00%	985/31 996/611	0.00%			



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

February 14, 2022

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

RE: SWN's proposed New Well: Timmy Minch OHI 10H 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

RECEIVED Office of Oil and Gas

MAR 4 2022

WV Department of Environmental Protection

R2 wV+

The Right People doing the Right Things, wisely investing the Astronomy Underlying Asset 04/08/2022



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

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SWN Production Company, LLC

RECEIVED Office of Oil and Gas

MAR 4 2022



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

Date of Notic	ce Certification: 33		API No. 47		
	1			Well No. Timm	
			Well Pad N	ame: _Timmy N	Minch OHI
Notice has			45,14		
	ne provisions in West Virginia Code §	22-6A, the Operator has prov	ided the req	uired parties v	with the Notice Forms listed
	tract of land as follows:			200105.000	
State:	West Virginia	UTM NAD 83	Easting:	530155.806	
County:	069-Ohio		Northing:	4437297.065	A.
District:	Triadelphia	Public Road Acce		Browns Run Roa	
Quadrangle:	Wheeling	Generally used fa	rm name:	Timmy Minch OH	
Watershed:	Browns Run of Peters Run of Wheeling Creek				
Virginia Cod of this article Pursuant to that the Ope	of subsection (b), section sixteen of the § 22-6A-11(b), the applicant shall tend have been completed by the applicant.  West Virginia Code § 22-6A, the Operator has properly served the required	nder proof of and certify to the certify to the certify to the certator has attached proof to the certain terms of	ne secretary	that the notice	requirements of section ten
*PLEASE CH	ECK ALL THAT APPLY				ONLY
□ I. NO	TICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRESEISMIC ACTIVITY WAS		and the second	☐ RECEIVED/ NOT REQUIRED
■ 2. NO	TICE OF ENTRY FOR PLAT SURVE	EY or NO PLAT SURV	EY WAS CO	ONDUCTED	☐ RECEIVED
■ 3. NO		☐ NOTICE NOT REQUIR NOTICE OF ENTRY FOR I WAS CONDUCTED OF			RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER I	BY SURFAC	CE OWNER	

Required Attachments:

**■** 5. PUBLIC NOTICE

6. NOTICE OF APPLICATION

4. NOTICE OF PLANNED OPERATION

WV Department of Environmental Protection

4 2022

RECEIVED Office of Oil and Gas

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.

(PLEASE ATTACH)

☐ RECEIVED

☐ RECEIVED

RECEIVED

By: Its:

### Certification of Notice is hereby given:

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

Well Operator: SWN Production Co., LLC

Brittany Woody

Senior Regulatory Analyst

Telephone: 304-884-1610 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508 Facsimile: 304-884-1690

Email:

Brittany Woody@swn.com

REID CROFT Notary Public Official Seal State of West Virginia Comm. Expires Aug 21, 2024 Sparrow Lane Morgantown WV 26508

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

Notary Public

My Commission Expires

### 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.

WW-6A (9-13) API NO. 47- 009 OPERATOR WELL NO. Timmy Minch OHI 10H
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 t	han the filing date of permit application.
21/2	M
Date of Notice: Date Permit Application Filed:	
Notice of:	A
✓ PERMIT FOR ANY ☐ CERTIFICATE OF A	PPROVAL FOR THE
WELL WORK CONSTRUCTION OF	F AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-6A-	10(b)
П П П	THE OTHER WHEN THE PROLUBES A
	HOD OF DELIVERY THAT REQUIRES A
SERVICE MAIL REC	EIPT OR SIGNATURE CONFIRMATION
registered mail or by any method of delivery that requires a receip sediment control plan required by section seven of this article, and the surface of the tract on which the well is or is proposed to be left oil and gas leasehold being developed by the proposed well work, described in the crosion and sediment control plan submitted pursoperator or lessee, in the event the tract of land on which the well more coal seams; (4) The owners of record of the surface tract or well work, if the surface tract is to be used for the placement, com impoundment or pit as described in section nine of this article; (5) have a water well, spring or water supply source located within or provide water for consumption by humans or domestic animals; a proposed well work activity is to take place. (c)(1) If more than the subsection (b) of this section hold interests in the lands, the application of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is not the section in the lands.	pit as required by this article shall deliver, by personal service or by or or signature confirmation, copies of the application, the erosion and define well plat to each of the following persons: (1) The owners of record of ocated; (2) The owners of record of the surface tract or tracts overlying the pit if the surface tract is to be used for roads or other land disturbance as smant to subsection (c), section seven of this article; (3) The coal owner, proposed to be drilled is located [sic] is known to be underlain by one or tracts overlying the oil and gas leasehold being developed by the proposed struction, enlargement, alteration, repair, removal or abandonment of any of Any surface owner or water purveyor who is known to the applicant to be thousand five hundred feet of the center of the well pad which is used to ind (6) The operator of any natural gas storage field within which the area tenants in common or other co-owners of interests described in cant may serve the documents required upon the person described in the in eight, article one, chapter eleven-a of this code. (2) Notwithstanding any of notice to a landowner, unless the lien holder is the landowner. W. Va. is provided the Well Site Safety Plan ("WSSP") to the surface owner and any ag as provided in section 15 of this rule.
☑ Application Notice ☑ WSSP Notice ☑ E&S Plan Notice	ce 🛮 Well Plat Notice is hereby provided to:
SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name: Timmy B. & Amy L. Minch	Name: Alliance Resources GP, LLC
Address: 260 Browns Run Road	Address: 2596 Battle Run Road
Wheeling, WV 26003	Triadelphia, WV 26059
Name:	□ COAL OPERATOR
Address:	Name:
	Address:
SURFACE OWNER(s) (Road and/or Other Disturbance)	Control of the Contro
Name:	SURFACE OWNER OF WATER WELL
Address:	AND/OR WATER PURVEYOR(s)
	Name: See Attachment 13A
Name:	Name: See Attachment 13A Address:
Address:	
	☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD
SURFACE OWNER(s) (Impoundments or Pits)	Name: RECEIVED Address: Office of Oil and Gas
Name:	Address: Office of Oil and Gas
Address:	*PL 4 2022
	*Please attach additional forms if necessary MAR 4 2022

API NO. 47- 069 OPERATOR WELL NO. Timmy Minch OHI 10H
Well Pad Name: Timmy Minch OHI

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

Date	2/2	: notice shall be prov	21	n the filing date of permit application.	
<b>V</b>	PERMIT FOR ANY WELL WORK			ROVAL FOR THE AN IMPOUNDMENT OR PIT	
Deli	very method pursuan	t to West Virginia C	ode § 22-6A-10	(b)	
	PERSONAL SERVICE	REGISTERED MAIL		OD OF DELIVERY THAT REQUIRES A PT OR SIGNATURE CONFIRMATION	
certi regis sedin the social addesc oper more well important proving properties.	ficate of approval for the stered mail or by any ment control plan require surface of the tract on whand gas leasehold being dribed in the erosion and ator or lessee, in the eve e coal seams; (4) The ow work, if the surface trace bundment or pit as described water well, spring or ride water for consumptionsed well work activity fection (b) of this section rds of the sheriff require ision of this article to the R. § 35-8-5.7.a require	e construction of an im thod of delivery that re- ed by section seven of the the well is or is pro- leveloped by the propo- sediment control plan and the tract of land on so the tract of land on so the section nine of water supply source loo- ton by humans or dome is to take place. (c)(1) I hold interests in the lad to be maintained pur- te contrary, notice to a less, in part, that the open	equires a receipt of this article, and to oposed to be local sed well work, if submitted pursual which the well provided the blacement, constraint ones this article; (5) A cated within one estic animals; and If more than three ands, the applicant suant to section of lien holder is not rator shall also p	of the application, the applicant for a permit for any well work or for a tas required by this article shall deliver, by personal service or by or signature confirmation, copies of the application, the crosion and the well plat to each of the following persons: (1) The owners of record of the surface tract or tracts overlying the other surface tract is to be used for roads or other land disturbance as not to subsection (c), section seven of this article; (3) The coal owner, coposed to be drilled is located [sic] is known to be underlain by one or cits overlying the oil and gas leasehold being developed by the proposed uction, enlargement, alteration, repair, removal or abandonment of any any surface owner or water purveyor who is known to the applicant to thousand five hundred feet of the center of the well pad which is used to (6) The operator of any natural gas storage field within which the elements in common or other co-owners of interests described in at may serve the documents required upon the person described in the eight, article one, chapter eleven-a of this code. (2) Notwithstanding any notice to a landowner, unless the lien holder is the landowner. W. Va. rovide the Well Site Safety Plan ("WSSP") to the surface owner and any as provided in section 15 of this rule.	
ΠА	application Notice	WSSP Notice □E&	&S Plan Notice	☐ Well Plat Notice is hereby provided to:	
the state of the state of	JRFACE OWNER(s)			COAL OWNER OR LESSEE	
	ress:		-	Name: H3, LLC Address: Rt. 1 Box 605	
ruu	1635.			Millon, WV 25541	
Nam	ne:			COAL OPERATOR	
Add				Name:	
				Address:	
	JRFACE OWNER(s) (				
Nam	ie:		-	☐ SURFACE OWNER OF WATER WELL	
Add	ress:		÷ :	AND/OR WATER PURVEYOR(s)	
Nam	ie.			Name:Address:	
Add	ress:			riduless.	
				OPERATOR OF ANY NATURAL GAS STORAGE FIELD	
	JRFACE OWNER(s) (			Name:	
Nam	ie:	TANK TANK AN		Address:	
Addı	ress:			Office of Oil and Gas	
-			4	*Please attach additional forms if necessary  MAR 4 2022	

API NO. 47- 009

OPERATOR WELL NO. Throny Minch 241 (0H

Well Pad Name: Timmy Minch OHI

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(t), 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 a fighting to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination of leading 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 <a href="https://www.dep.wv.gov/oil-and-ens/pages/default.aspx">www.dep.wv.gov/oil-and-ens/pages/default.aspx</a>.

### 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

API NO. 47-009 -

OPERATOR WELL NO. Timmy Minch OHI 10H

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 57<sup>th</sup> St. SE
Charleston, WV 25304
(304) 926-0450

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

API NO. 47- 009

OPERATOR WELL NO. Timmy Minch OH 10H

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(e)(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 <a href="http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx">http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx</a> 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 safer, of persons;
- (2) The plan for soil erosion and sediment control is not a sequence of factly s
- (3) Damage would occur to publicly owned lands or resources
- (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.

RECEIVED Office of Oil and Gas

MAR 4 2022

WW-6A (8-13) API NO. 47-009 OPERATOR WELL NO. Timmy Minch OHI 10H
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

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 <a href="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

REID CROFT

Notary Public Official Seal
State of West Virginia
My Comm. Expires Aug 21, 2024
47 Sparrow Lane Morgantown WV 26508

Subscribed and sworn before me this 17th day of Feb

2022

Notary Public

My Commission Expires

8/21/2024

RECEIVED Office of Oil and Gas

MAR 4 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 IR	265 BROWNS RUN Rd	WHEFLING	wv	26003	1



WW-6.43 (1/12)

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

	Requirement:	Notice shall be prov	rided at least	SEVEN (7) da	ys but no more tha	n FORTY-F	VE (45) days	prior to
entry Date of Notice	e: 1/10/2022	Date of Plan	nned Entry:	1/17/2022			1	
Delivery meth	od pursuant t	to West Virginia C	ode § 22-6A-	10a			and a second	
T nuneous		REGISTERED	Пмет	HOD OF DE	IVERY THAT RE	OURRES A	Í	
PERSON SERVICE		MAIL.			NATURE CONFIR			
Pursuant to W on to the surfa but no more th beneath such to owner of mine and Sediment Secretary, white enable the surfa-	est Virginia Co ce tract to cond an forty-five d ract that has fil rals underlying Control Manua ch statement sl	ode § 22-6A-10(a), I fluct any plat surveys ays prior to such enged a declaration pure, such tract in the coll and the statutes annuall include contact obtain copies from the	s required pur try to: (1) The suant to section ounty tax recount rules relate information, i	suant to this a e surface owner on thirty-six, a rds. The notic d to oil and ga including the a	rticle. Such notice ser of such tract; (2), article six, chapter to shall include a state of sexploration and puddress for a web particle.	shall be provi to any owner wenty-two of atement that c roduction ma age on the Sec	ded at least se or lessee of co this code, and opies of the st y be obtained	ven days pal seams (3) any ate Erosion from the
■ SURFAC	E OWNER(s)		1		L OWNER OR LE			
Name: Timmy B.			/		ance Resources GP, LLC	/	-	
Address: 260 B			_	Charles and Carlotte	2596 Battle Run Road			
Wheeling, WV 2600			-3	Triadelphia, V	VV 26059	-	-	
				MIN MIN	ERAL OWNER(s)			
Address.			-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	amy B. & Amy L. Minch	/		
Name:					260 Browns Run Road			
Address:				Wheeling, W		A	Company Stores	1 × + + =
				*please attac	h additional forms if ne	cessary		
a plat survey o State:	est Virginia Co n the tract of la West Virginia	de § 22-6A-10(a), n and as follows:	notice is hereb	Approx. Lati	ude & Longitude:	40.085254, -80.0	46239	to conduct
County:	Ohio			Public Road	Access:	Brown Run Road	-	
District:	Triadelphia		-	Watershed:		- Aller Aller	eters Run of Little V	Vheeling Creek
Quadrangle	Wheeling			Generally use	ed tarm name	Timmy Minch		
may be obtaine Charleston, W	ed from the Sec V 25304 (304-	nd Sediment Control cretary, at the WV E 926-0450). Copies by visiting www.dep	Department of of such docu	Environmenta ments or addit	al Protection headquional information r	Inches	d at 601 57th 5 zontal drilling	Connect CE
Notice is her	ehy given hy						MAR	4 2022
		ION COMPANY, LLC		Address:	1300 Fort Pierpont Dr.,	Suite 201	MIMI	# 7077
Telephone:	304-884-1610				Morgantown, WV 26508		_ WV Der	partment
Email:	Brittany_Woody@	swn.com		Facsimile:	304-884-1890		Environme	ntal Protection
Oil and Gas							7	

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.

WW-6A3 (1/12) Operator Well No Timmy Minch OHI

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

	Requirement:	Notice shall be prov	ided at leas	t SEVEN (7) da	ys but no more tha	n FORTY-F	IVE (45) days p	rior to
Date of Notic	e: 1/10/2022	Date of Plan	ned Entry	1/17/2022				
Delivery met	hod pursuant	to West Virginia C	ode § 22-6A	A-10a			*	
PERSON SERVICE		REGISTERED MAIL			LIVERY THAT RINATURE CONFIR			
on to the surfa but no more the beneath such to owner of mine and Sediment Secretary, white enable the surfa-	ice tract to cond nan forty-five d tract that has fil- erals underlying Control Manua ich statement si face owner to o	ode § 22-6A-10(a), I duct any plat surveys ays prior to such en- led a declaration pur- g such tract in the co- all and the statutes an hall include contact obtain copies from the	s required p try to: (1) T stant to sec unty tax red d rules relati information	ursuant to this a he surface owner tion thirty-six, a cords. The notice ted to oil and gat, including the a	rticle. Such notice or of such tract; (2) rticle six, chapter to be shall include a st s exploration and p	shall be provi to any owner twenty-two of atement that o production ma	ded at least seve or lessee of con this code; and ( copies of the star y be obtained fr	en days Lseams 3) any te Erosion om the
Notice is here	by provided to	0:10						
☐ SURFAC	E OWNER(s)			■ COA	LOWNER OR LE	ESSEE		
Name:	( .			Name: H3	LLC			
Address:		2			Rt. 1 Box 605	/		
11001000	1		-	Milton, WV 25		292		100
Name:	- 1	70					-	
Address.		1		☐ MIN	ERAL OWNER(s)			
		100		Name:				
Name:				Address:				
Address:			2					
				*please attac	h additional forms if no	ecessary		
	est Virginia Co	nde § 22-6A-10(a), n	otice is here	eby given that th	ne undersigned wel	l operator is p	lanning entry to	conduct
	on the tract of la	and as follows:						
State:	West Virginia			- 500	ude & Longitude:	40.085254, -80.0		
County:	Ohio			Public Road.	Access:	Brown Run Road		
District:	Triedelphia			Watershed			elers Run of Little Wh	eeling Creek
Quadrangle:	Wheeling			Generally use	d farm name	Timmy Minch		-
may be obtain Charleston, W	ed from the Sec V 25304 (304-	nd Sediment Control cretary, at the WV D 926-0450). Copies by visiting <u>www.dep</u>	epartment of such doc	of Environmenta suments or addit	I Protection headq ional information r	uarters, locate	ed at 601 57 <sup>th</sup> St zontal drilling n	reet, SE, pay be
Notice is her	eby given by						Office of	CEIVED Oil and Gas
Well Operator		ION COMPANY, LLC		Address:	1300 Fort Pierpont Dr.,	Suite 201	1 2.75	1
Telephone:	304-884-1610				Morgantown, WV 26508		MAR	4 2022
Email:	Brittany_Woody@	gswn.com		Facsimile:	304-884-1690		The state of	
	7				- ALL ALL ALL		Fryironmer	ntal Protection
	Privacy Noti	ce: ocesses your persone	Linformatic	on such as num	a addrage and tales	nhane numbe		

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 pov.

04/08/2022

WW-6A4 (1/12) Operator Well No. 1 mmy Minch OHI 10H

### 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 I Date of Notic	Requirement: Notice shall be provided at lea e: 02/07/2022 Date Permi	ast TEN (10) days prior to filing a t Application Filed:	permit application.
Delivery metl	nod pursuant to West Virginia Code § 22-	6A-16(b)	
☐ HAND	■ CERTIFIED MAIL		
DELIVE		ESTED	
DELIVE	KI KETOKN KECEIFI KEQUI	ESTED.	
receipt reques drilling a hori of this subsect subsection ma and if availabl	Va. Code § 22-6A-16(b), at least ten days parted or hand delivery, give the surface owner contal well: <i>Provided</i> , That notice given purion as of the date the notice was provided to be waived in writing by the surface owner, e, facsimile number and electronic mail address.	notice of its intent to enter upon the resuant to subsection (a), section to the surface owner: <i>Provided, how</i> . The notice, if required, shall includes of the operator and the operator	ne surface owner's land for the purpose of on of this article satisfies the requirements of the requirements of this ude the name, address, telephone number,
	eby provided to the SURFACE OWN		
Name: Timmy B.		Name:	
Address: 260 B	ling, WV 26003	Address:	
State: County:	West Virginia Chio	UTM NAD 83 Easting: Northing:	530,155.806 4,437,297.085
District:	Tridelphia	Public Road Access:	Browns Run Road
Quadrangle: Watershed:	Wheeling, WV Browns Run of Peters Run of Wheeling Creek (HUC-10)	Generally used farm name:	Timmy Minch OHI
Pursuant to W facsimile num related to hori	Shall Include:  /est Virginia Code § 22-6A-16(b), this not ber and electronic mail address of the ope zontal drilling may be obtained from the Se 57 <sup>th</sup> Street, SE, Charleston, WV 25304 (304)	rator and the operator's authorize ecretary, at the WV Department o	ed representative. Additional information f Environmental Protection headquarters,
	eby given by:  SWN Production Company, LLC	Audio i I B	
Address:		_ Authorized Representative: Address:	
Tuuless.	1300 Fort Pierpont Drive, Suite 201	Address.	1300 Fort Pierpont Drive, Suite 201
Telephone:	Morgantown, WV 26508	Telephone:	Morgantown, WV 26508
Email:	304-884-1714	Email:	304-884-1714
acsimile:	Michael_Yates@swn.com		Michael_Yates@swn.com
aesimile:	-	Facsimile:	7

### 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 <a href="mailto:deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

WW-6A5 (1/12)

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

Date of Notice	Requirement: notice shall be provided no la e: 02/07/2022 Date Permit Appl		33	аррисации.		
Delivery met	hod pursuant to West Virginia Code § 22-	6A-16(c)				
■ CERTI	FIED MAIL	AND				
100000		ELIVERY				
return receipt the planned of required to be drilling of a l damages to the	V. Va. Code § 22-6A-16(c), no later than the requested or hand delivery, give the surface operation. The notice required by this substance provided by subsection (b), section ten of the norizontal well; and (3) A proposed surface a surface affected by oil and gas operations the required by this section shall be given to the	owner whose lar ection shall inclusive article to a sur use and comper to the extent the compensation	d will be used foude: (1) A copy face owner whose is ation agreement amages are comp	or the drilling of a of this code sec the land will be used the containing an opensable under a	a horizontal wation; (2) The ed in conjunct offer of comparticle six-b of	rell notice of information tion with the pensation for this chapter.
	eby provided to the SURFACE OWNER(s s listed in the records of the sheriff at the tim . & Amy L, Minch					
The state of the s		Addre				
Address: 260 F	BIOWIS Rui Ru	Addie	33.			
Notice is her	eby given:			well operator has	developed a	planned
Notice is here Pursuant to W operation on State:	eby given: Yest Virginia Code § 22-6A-16(c), notice is h the surface owner's land for the purpose of d West Virginia	ereby given that	the undersigned valued well on the tra	ct of land as follo 530,155,806		planned
Notice is here Pursuant to W operation on State: County:	eby given: 'est Virginia Code § 22-6A-16(c), notice is h the surface owner's land for the purpose of d West Virginia Ohio	ereby given that rilling a horizont UTM NAD	the undersigned valued well on the tra Easting: Northing:	et of land as follo		planned
Notice is here Pursuant to W operation on State: County: District:	eby given: Yest Virginia Code § 22-6A-16(c), notice is h the surface owner's land for the purpose of d West Virginia	ereby given that rilling a horizont UTM NAD Public Road	the undersigned valued well on the tra 83 Easting: Northing: Access:	ct of land as follo 530,155.806 4,437,297.085		planned
Notice is here	eby given:  'est Virginia Code § 22-6A-16(e), notice is h the surface owner's land for the purpose of d  West Virginia  Ohio  Tridelphia	ereby given that rilling a horizont UTM NAD Public Road	the undersigned valued well on the tra Easting: Northing:	ct of land as follo 530,155.806 4,437,297.085 Browns Run Road		planned
Notice is here. Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to Work to be provide the horizontal we surface affect information re-	eby given:  Vest Virginia Code § 22-6A-16(c), notice is he the surface owner's land for the purpose of dest Virginia  Ohio  Tridelphia  Wheeling, WV  Browns Run of Peters Run of Wheeling Creek (HUC-10)  Shall Include:  Vest Virginia Code § 22-6A-16(c), this notice dest Virginia Code § 22-6A-10(b) to a surface use and completed by oil and gas operations to the extent the lated to horizontal drilling may be obtained located at 601 57th Street, SE, Charlestee	ereby given that rilling a horizont UTM NAD Public Road Generally uses that include: () face owner whosensation agreement damages are of from the Secretarial face of the secr	the undersigned valued well on the tra 83 Easting: Northing: Access: sed farm name:  1)A copy of this copy of	ct of land as follo 530,155,806 4,437,297.085 Browns Run Road Timmy Minch OHI  code section; (2) ised in conjunction offer of compenser article six-b of Department of	The information with the insation for daily of this chapter Environmentawww.dep.wv.	ion required drilling of a mages to the . Additional al Protection gov/oil-and-
Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information re headquarters, gas/pages/defi	eby given:  Yest Virginia Code § 22-6A-16(c), notice is he the surface owner's land for the purpose of deserting West Virginia  Ohio  Tridelphia  Wheeling, WV  Browns Run of Peters Run of Wheeling Creek (HUC-10)  Shall Include:  Yest Virginia Code § 22-6A-16(c), this notice deserting by W. Va. Code § 22-6A-10(b) to a surface use and competed by oil and gas operations to the extent the elated to horizontal drilling may be obtained located at 601 57th Street, SE, Charleste ault.aspx.	ereby given that rilling a horizont UTM NAD Public Road Generally us a shall include: (Face owner whosensation agreement damages are of from the Secreton, WV 25304	the undersigned valuell on the tra 83 Easting: Northing: Access: sed farm name:  1)A copy of this cale land will be usent containing an compensable understay, at the WV (304-926-0450)	et of land as follo 530,155,806 4,437,297.085 Browns Run Road Timmy Minch OHI  code section; (2) ised in conjunction offer of compener article six-b of the conjunction of the con	The information with the insation for daily of this chapter Environmentawww.dep.wv.	ion required drilling of a mages to the . Additional al Protection gov/oil-and-
Notice is here. Pursuant to Woperation on State: County: District: Quadrangle: Watershed:  This Notice S Pursuant to Work to be provide horizontal we surface affect information reheadquarters, gas/pages/defi	eby given:  Vest Virginia Code § 22-6A-16(c), notice is he the surface owner's land for the purpose of dest Virginia  Ohio  Tridelphia  Wheeling, WV  Browns Run of Peters Run of Wheeling Creek (HUC-10)  Shall Include:  Vest Virginia Code § 22-6A-16(c), this notice dest Virginia Code § 22-6A-10(b) to a surface use and competed by oil and gas operations to the extent the lated to horizontal drilling may be obtained located at 601 57th Street, SE, Charleste ault.aspx.	ereby given that rilling a horizont UTM NAD Public Road Generally uses that include: () face owner whosensation agreement damages are of from the Secretarial face of the secr	the undersigned valued well on the tra 83 Easting: Northing: Access: sed farm name:  1) A copy of this disc land will be usent containing an compensable undertary, at the WV (304-926-0450)	ct of land as follo 530,155,806 4,437,297.085 Browns Run Road Timmy Minch OHI  code section; (2) used in conjunction offer of compenser article six-b of Department of loop by visiting years.	The information with the sation for day of this chapter Environmenta www.dep.wv.	ion required drilling of a mages to the . Additional al Protection gov/oil-and-
Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information re headquarters,	eby given:  Yest Virginia Code § 22-6A-16(c), notice is he the surface owner's land for the purpose of deserting West Virginia  Ohio  Tridelphia  Wheeling, WV  Browns Run of Peters Run of Wheeling Creek (HUC-10)  Shall Include:  Yest Virginia Code § 22-6A-16(c), this notice deserting by W. Va. Code § 22-6A-10(b) to a surface use and competed by oil and gas operations to the extent the elated to horizontal drilling may be obtained located at 601 57th Street, SE, Charleste ault.aspx.	ereby given that rilling a horizont UTM NAD Public Road Generally us a shall include: (Face owner whosensation agreement damages are of from the Secreton, WV 25304	the undersigned valued well on the tra 83 Easting: Northing: Access: sed farm name:  1) A copy of this disc land will be usent containing an compensable undertary, at the WV (304-926-0450)  1300 Fort Pierport Discognition, WV 26	ct of land as follo 530,155,806 4,437,297.085 Browns Run Road Timmy Minch OHI  code section; (2) used in conjunction offer of compenser article six-b of Department of loop by visiting years.	The information with the insation for daily of this chapter Environmentawww.dep.wv.	ion required drilling of a mages to the . Additional al Protection gov/oil-and-

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### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

### **Division of Highways**

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

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 57<sup>th</sup> Street, SE Charleston, WV 25304

Subject: DOH Permit for the Timmy Minch Pad, Ohio County
Timmy Minch OHI 10H Well Site

Dear Mr. Martin,

D. Alan Reed, P.E.

State Highway Engineer

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.

Tary K. Clayton

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Brittany Woody Southwestern Energy CH, OM, D-6 File Office of Oil and Gas

### Attachment VI Frac Additives

Product Name Al-303 (U.S. Well Services)	Product Use Mixture	Chemical Name Ethylene glycol	CAS Numbe 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 Ethanol	68424-85-1 64-17-5
Bactron K-219 (Champion Technologies)	Biocide	Methanol	67-56-1
			- start as
	400	Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1 66402-68-4
CarboNRT	Tracer	Ceramic Proppant	
C6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate	Proprietary
		Ethylene Glycol	107-21-1
C6734A (Champion Technologies)	Biocide	Hydrogen Peroxide	7722-84-1
		Acetic Acid	64-19-7
		Peroxyacetic Acid	79-21-0
cono-CI200 (SWN Well Services)	Corrosion Inhibitor	Methanol	67-56-1
		Oxyalkylated fatty acid	58951-67-7
		Fatty acids	51790-12-3
The state of the s		Modified thiourea polymer	58527-49-1
		Water	7732-18-5
		Hydrochloric acid	7647-01-0
		Potassium acetate	127-08-2
		Formaldehyde	50-00-0
copol-FEAC (SWN Well Services)	Iron Control	Acetic Acid	54-19-7
		Citric Acid	77-92-9
		Water	7732-18-5
DP-S1176-15 (Halliburton)	Friction Reducer	Polyacylate	Proprietary
		Hydrotreated light petroleum distillate	64742-47-8
LOJET DR900 LPP (SWN Well Services)	Friction Reducer	Distillates (petroleum) hydrotreated light	64674-47-8
		Ethylene Glycol	107-21-1
		Alcohols, C12-16, Exoxylated propoxylated	58213-24-1
		Fatty Alcohols ethoxylated	Proprietary
		Water	7732-18-5
LOJET DRP 1130X (SWN Well Services)	Friction Reducer	Proprietary	Proprietary
R-76 (Halliburton)	Friction Reducer	Hydrotreated light petroleum distillate	54742-47-8
		Inorganic Salt	Proprietary
SYPTRON T-390 (Champion Technologies)	Scale Inhibitor	Methanol	67-56-1
		Nonylphenol Ethoxylate	Proprietary
HAI-150E (Halliburton)	Corrosion Inhibitor	No hazardous substance	N/A
ICL (SWN Well Services)	Hydrocholic Acid	Hydrochlaric Acid	7647-01-0
int to as a section of the control of	Tyoteerone nord	Water	7732-18-5
P-65 MC (Halliburton)	Scale Inhibitor	Organic phosphonate	Proprietary
P-03 MIC (Halliburton)	Source Infiliation	Ammonium Chloride	12125-02-9
OPTI-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	64742-47-8
			Proprietary
lexslick 930	Friction Reducer	Copolymer of 2-propenamide 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
denalish non	Cristian Deducer	Petroleum Distillate	64742-47-8
lexslick 953	Friction Reducer	Sodium Chloride	7647-14-5
	151	Ammonium Chloride	12125-02-9
		N,N-bis (2-hydroxyethyl) oleamide	93-83-4
	education at the second		64742-47-8
lexslick 957	Friction Reducer	Petroleum Distillate	12125-02-9
		Ammonium Chloride	93-83-4
		Oleic Acid Diethanolamide	68551-12-2
		Alcohols, C12-16, Exoxy ated Water	7732-15-5
WEDA 2000 HIE WATER-STATE	Animala Falistica na t		64742-47-8
VFRA-2000 (U.S. Well Services)	Anionic Friction Reducer	Hydrotreated light distillate (petroleum)  Propenoic acid, polymer with propenamide	9003-059
day of deep and	end- retain		
Plexaid 655 NM	Scale Inhibitor	Diethylenetriamine penta (methylene phosphonic acid)	15827-30-8 69418-26-4
Plexslick 922	no data available	Copolymer of 2-propenaminde	69418-26-4
		Distillates (petroleum), hydotreated light	12125-02-9
		Ammonium chloride ((NH4)CI)	93-83-4
talaida BCEDA	Diamidal and duce	Oleic Acid Diethnolamide Tatakis (hudrov/method) phoenhopium sulphate	55566-30-8
folcide PS50A	Biocidal product	Tetrakis (hydroxymethyl) phosphonium sulphate	33300-5U-5
		Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate	207255 50
D 2070	Paladan Bardinas	groups	397256-50-
D-2950	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8 Proprietant
		Ethaxylated alcohol	Proprietary
		Poly (oxy-1.2-ethanediyl) alphatridecylomegahydroxy-, branched	69011-36-5
Legend LD-7750W	Scale Control	Methanol	67-56-1
		Phosphonic Acid Salt	Proprietary
MC MX 8-4743	Specialty Product	Sodium Nitrate	7631-99-

04/08/2022

- 1. THIS PLAN IS FOR GRADING, STORMWATER SYSTEMS, AND EROSION AND SEDIMENT
- 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 ENGINEERS INTENT THAT ANY SINGLE PLAN SET FALLY DEPICTS ALL WORK ASSOCIATED WITH THIS PROJECT.
- 4. SOIL TYPE BOUNDARY, AND CHARACTERISTICS SHOWN HEREON WERE ACQUIRED FROM
- 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 WY 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% 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

CUT - 8 910 CY FILL - 13,890 CY TOTAL COMBINED - 22,800

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

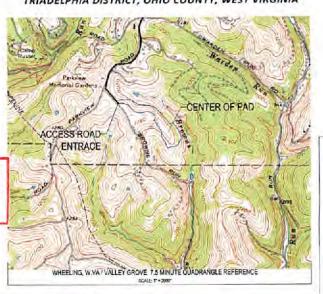


1	AFFROVED
1	WVDFP OOG
ı	Modification
١	1/2/1 8/23/2018

Item Description	Unit	Quantity
Mobilization per machine	Each Machine	N/A
Clearing, Grubbing	Ac.	N/A
Earthwork	C.Y.	28530
Geotextile	5.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	5.Y.	6370
12" Filter Sock	LF.	N/A
18" Filter Sock	LF.	531
24" Filter Sock	L.F.	592
32" Filter Sock	L.F.	N/A
Super Silt Fence	LF.	N/A

### **EROSION AND SEDIMENT CONTROL PLAN** FOR TIMMY MINCH PAD EXPANSION

### TRIADELPHIA DISTRICT, OHIO COUNTY, WEST VIRGINIA



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 DEFINING THE REQUIREMENTS FOR THE PROJECT, IN THE EVENT OF DISCREPANCIES, IT IS REQUIRED TO IMMEDIATELY CONTACT THE ENGINEER (AGENT) FOR INTERPRETATION

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

PROJECT COORDINATOR: SHAWN JACKSON, SOUTHWESTERN ENERGY, LLC FIELD PLANNING SUPERVISOR - WY 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:

TOPOGRAPHIC INFORMATION: GROUND SURVEY DATED JUNE 4, 2018
DATUM: HORZ, NAD 83 WEST VIRGINA NORTH



**REVISION DETAILS** 

REVISION #1 REVISED SHEETS; C.001,C.101,C.104,C.201,C.202 REVISION #2

ADDED SHEET C.302

(NAD 83) LAT: 40.085820° LONG: -80.646244" CENTER OF PAD (NAD 83)

LAT: 40.085323"

COORDINATES:

(NAD B3)

LAT: 40.088192" LONG: -80.652358"

AT MINCH PAD

LONG: -80.646230\* GATHERING AREA (NAD 83) LAT: 40.088289\* LONG: -80.652336\*

CENTER OF AST (NAD 83) LAT: 40.086452\* LONG: -80.646995"

LANDS N/F OF TIMMY B AND AMY L MINCH TMP # 4-R17-857 & 5-T2-18 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
1201 - 0.205	GRADING AND EROSION CONTROL PLANS / PROFILES
C:301	RECLAMATION PLANS
C501 - C.522	DETAILS



PROJECT

CALL TOLL FREE 800-245-4848 MISS UTILITY OF WEST VIRGINIA PREPARED FOR

Southwestern Energy'

SEAL annuman, P. DUBONS SEGISTERED 17272 STATE OF of 2216 STONAL ENGINE



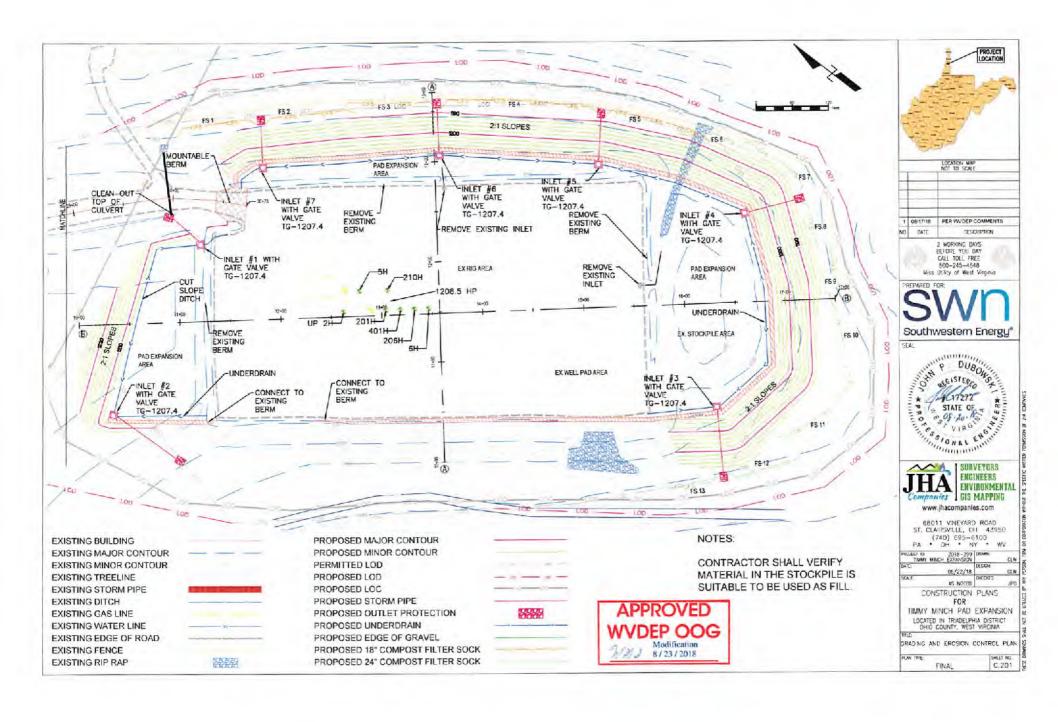
www.fhacompanies.com 68011 VINEYARD ROAD ST. CLARSVILLE, OH 43950

(740) 695-6100 PA . OH . NY . WV TAMY MINCHEAD EXPANSION 06/22/16 CLW AS NOTED CONSTRUCTION PLAN

TIMMY MINCH PAD EXPANSION LOCATED IN TRIADELPHIA DISTRICT, DHIO COUNTY, WEST VIRGINIA

COVER SHEET

C.001



- 1. THIS PLAN IS FOR GRADING, STORMWATER BYSTEMS, 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 MATCHIC OUTSIDE OF THE LOD IS FROM LIDAR DATA FROM WW.GIS TECHNICAL CENTER.
- 6. NO TOPSOIL REMOVAL BETWEEN LIMIT OF CONSTRUCTION AND LIMIT OF DISTURBANCE, VEGETATIVE BUFFER TO REMAIN.
- 7. FLL WILL BE COMPACTED TO 55% OF STANDARD PROCTOR DENSITY (ASTMANN, 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 8" AND FREE OF OUTCOMMAND MATERIAL.

#### CUTE IL CUAPITIES

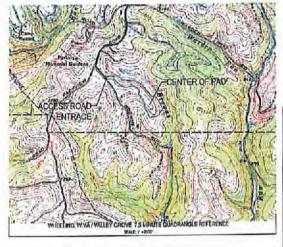
CUT - 8,910 CY FILL - 13,890 CY TOTAL COMBINED - 22,500

AST FIL - 20 CY JOTAL COMBINED - 5,710 CY

jem Description	Unit	Quantity
Mobilization per machine	Each Machine	N/A
Clearing, Grubbing	Ac.	N/A
Earthwork	C.Y.	28530
Geotextile	5.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	CY.	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	LF.	N/A
18" Filter Sock	LF.	531
24" Filter Sock	L.F.	592
32" Filter Sock	LF.	N/A
Super Silt Fence	L.F.	N/A

### EROSION AND SEDIMENT CONTROL PLAN FOR

TIMMY MINCH PAD EXPANSION TRIADELPHIA DISTRICT, OHIO COUNTY, WEST VIRGINIA



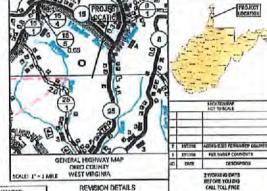
PROJECT NARRATIVE PROPOSED CONSTRUCTION TO BE PERFORMED IN ACCORDANCE WITH THIS CHAMMED SET OF PAGE SHEET SET, DATED 2019 69-18, WHICH ARE COMPLEMENTARY AND HAVE THE SAME FORDER OF FRECT IN DEPRING THE REQUIREMENTS FOR THE PROJECT, III THE EVENT OF DISCREPANCIES, IT IS REQUIRED. TO STATE OF THE PROJECT OF FOR WITERPRETATION

PROJECT CONTACTS
OPERATOR:
SOUTHWESTERN ENERGY, LLC 179 INNOVATION DRIVE JAMELLW, WY 26378 PHONE (304) 884-1616 WWW.5WIR.COM

PROJECT COORDINATOR: STANNI JACKSON, SOUTHWESTERN ENERGY, LLC FIELD MANDRING SUPERVISOR - WY DIV. FHONE: (204) 884-1618 FMAIL: SHAWH JACKSON DSWILLOM

ENGINEER THA COMPANIES 60011 VINEYARD ROAD ST. CLARGVILLE, OHIO 41950 PHONE: (740) 695-6100 FAX: (740)-449-2343

TOPOGRAPHIC INFORMATION: GROUND SURVEY DAYLO JUNE 4, 2018 DATUM: HORZ. NAD 88 WEST VIRGINA VERT. HAVO 88



COORDINATES: (KAD S3) LAT: 40.088192" LONG: -80.652356\*

AT MINCH PAD (NAD 83) LAT: 40.085820\* LONG: -80.545244\*

CENTER OF PAD (NAD 83) LAT: 40.085323\*

(NAD 83) LAT: 40.088289 LONG: -80.652336\*

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

LANDS NF OF THREY 8 AND MAY LAUNCH THE # 4-R17-557 & 6-T2-16 LIMIT OF DISTURBANCE = 17.02 ACRES

CING NO	DITAMANG CESCREPTION
G991	COVER DIFFET
C002 - D003	EVICUATION FOUTS / PREVAUR G PRIOS
C.101 - C.104	ENSTRIG CONSITIONS
C101 - C.105	GRACIES AND EXCERCISION CONTROL PLANS / PROFILES
C331	RECLAMATION FLATS
C501 - C.577	DETAILS

EVISION #1

REVISION#2 ADDED SHEET C.302

ARREST C NO FERNANCE COLUMNIT BEFORE YOU DIS 200 255 1858 MISS LITERY OF YEST WINGOIN PREPARED FOR REVISED SHEETS: COOLC. 101,C.101,C.201,C.202 Southwestern Energy' P. DUBON SSISTERED W 14272 POP OF THE OF THE POP 2 STATE OF TO OF TO OF TO PERSON RUDVEYORS ENGINEERS JHA ENVIRONMENTAL GIS MAPPING

www.jhacompanies.com 68011 VINEYARD ROAD BT. CLAIRSVILLE OH 40950 (740) 695-8 100 PA \* OH \* NY \* VW CID 3918299 MOSTWINDSPACE REPUBLICA

AS NOTED CONSTRUCTION PLAN FOR TIMMY MINCH PAD EXPANSION LOCATED IN TRIVOCLEHIR DISTRICT, ONC COUNTY, WEST WRIGHIN

C.001

COVER SHEET