

### 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

Tuesday, April 19, 2022 WELL WORK PERMIT Horizontal 6A / New Drill

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

Re:

Permit approval for MIKE RYNIAWEC BRK 206H

47-009-00330-00-00

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:

MIKE RYNIAWEC BRK 206H

Farm Name:

MIKE RYNIAWEC

U.S. WELL NUMBER: Horizontal 6A

47-009-00330-00-00

Date Issued: 4/19/2022

New Drill

Promoting a healthy environment.

API	Number:	

### 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 shall be flow tested by the operator upon request of the drinking well owner prior to operating 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. 47-009

OPERATOR WELL NO. Mixe Rynaiwec BRK 206H

Well Pad Name: Mike Ryniawec BRK Pad

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

te Ryniawec  48' Ele Oil  y x ntal x	evation, propos  U  Deep  pated Thicknes	County Pad Name: Mi Road Access: Led post-construend Steel	District ike Ryniawed Lazear Run F uction: 1148' orage	Road , (
te Ryniawec  48' Ele Oil  y x ntal x	Public Fevation, propos  U Deep	Road Access:	Lazear Run Fuction: 1148'	Road , (
Oil  V X  ntal X  epth(s), Antici	evation, propos  U  Deep  pated Thicknes	ed post-construend Ste	orage 1148'	22
Oil v x ntal x epth(s), Antici	Deep  pated Thickness	nderground St	)K 1/1	22
v x ntal x epth(s), Antici	Deep Deep		DK 1171	
epth(s), Antici	pated Thicknes			
epth(s), Antici				
epth(s), Antici				
	. D. Garati i mi Bot Date			Associated Pressure- 3935
6038'				
7				
12814.92'				
a Depths:	347'			
ter Depths: S	Salinity Profile			
646' Salinity	Profile			
s: 325'				
Void (coal min	ne, karst, other	): None that v	we are aware	of.
ntain coal sean	ns Yes		No x	
ame:				
-				
				RECEIVED Office of Oil and Gas
t t	6038' n: Marcellus n: 19977' n: 12814.92' n Depths: ter Depths: 5 646' Salinity n: 325' Void (coal minutain coal sean	south, Target Top TVD- 5998', Target Base 6038'  n: Marcellus 19977'  n: 12814.92'  ter Depths: Salinity Profile 646' Salinity Profile 5: 325'  Void (coal mine, karst, other) ntain coal seams active mine? Yes  ame: epth:	South, Target Top TVD- 5998', Target Base TVD- 6053', Anticipal 6038'  a: Marcellus 19977'  a: Depths: 347'  ter Depths: Salinity Profile 646' Salinity Profile 325'  Void (coal mine, karst, other): None that ventain coal seams active mine? Yes  ame: epth:	h: Marcellus 19977' h: 12814.92' ter Depths: Salinity Profile 646' Salinity Profile h: 325'  Void (coal mine, karst, other): None that we are aware attain coal seams active mine? Yes No X  No X  Ame: Septh: Salinity Profile

MAR 1 6 2022

WV Department of Environmental Protection WW-6B (04/15) API NO. 47- 009

OPERATOR WELL NO. Mike Rynamics BRK 206H
Well Pad Name: Mike Ryniawec BRK Pad

18)

### CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	100'	100'	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	426'	426' -	492 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	1691'	1691'	672 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	19977'	19977'	Tali 3676sx/ 100' Inside Intermediate
Tubing							
Liners							

MgK 1/7/22

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"	0.352	3520	1768	Class A	1.19/40% Excess
Production	5 1/2"	8 3/4"-8 1/2"	0.361	14360	10500	Class A	1.19/5% Excess
Tubing	1						
Liners							

### **PACKERS**

Kind:	
Sizes:	
Depths Set:	
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WV Department of Environmental Protection

4700900330

WW-6B (10/14)

API NO. 47- 009

OPERATOR WELL NO. Mike Rynaiwec BRK 206H
Well Pad Name: Mike Ryniawec BRK Pad

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

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

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

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

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 14.99
- 22) Area to be disturbed for well pad only, less access road (acres): 9.69
- 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.

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\*Note: Attach additional sheets as needed.

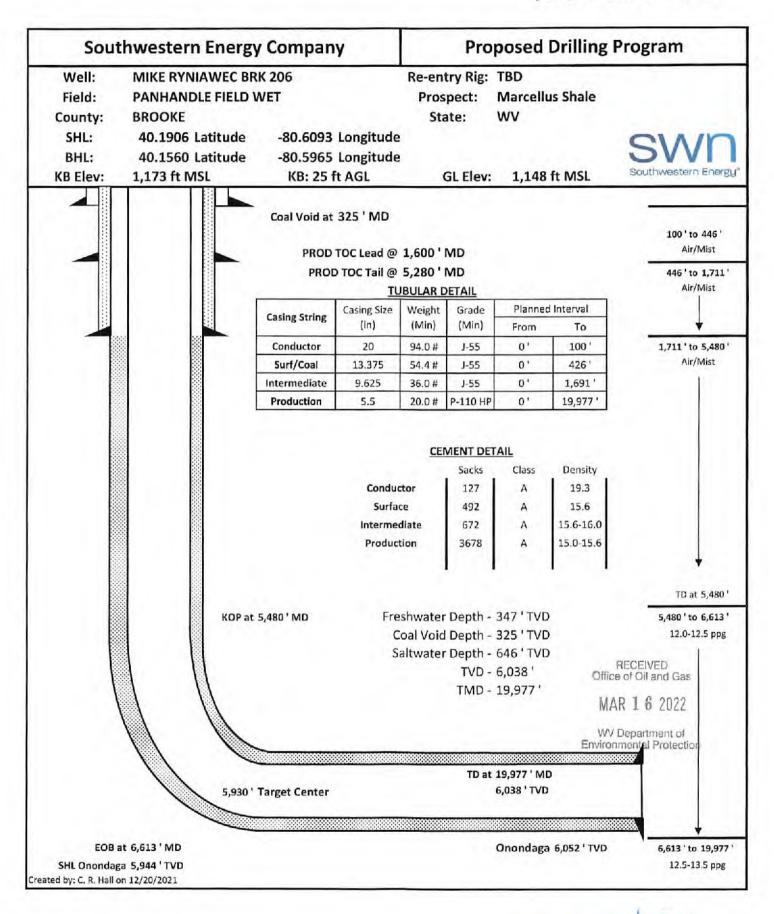
### 4700900330

			CEMENT	ADDITIVES		
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Numbe
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%	S001	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	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	CemNet	><	><	LOST CIRC MATERIAL	COATED FIBERGLASS FIBERS	PROPRIETAR
	SUGAR	SUGAR	CJ795	CMT RETARDER	SUCROSE	57-50-1
	5001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
		> <	CJ111	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
	><	SS-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	PROPRIETAR
PRODUCTION	D255	$\supset$	X	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETAR
			CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
		FL-66	CJ501	LOW TEMP FLUID LOSS ADD	POWDERED POLYSACCHARIDE	PROPRIETAR
		BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	$\times$	VISCOSIFIER/ANTI- SETTLING AGENT	REFINED POLYMER/ CHRYSTALLINE SILICA	PROPRIETAR
	D198	R-3		CEMENT RETARDER	LIGNIN	8068-51-6
	SUGAR	SUGAR	CJ795	CEMENT RETARDER	SUCROSE	57-50-1

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MgK 1/22/2022

WW-9 (4/16)

API Number 47 -	009		
Operator	Well	No Mila P	uninware BRK 208H

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

### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name SWN Production Co., LLC	OP Code 494512924
Watershed (HUC 10) Upper Ohio South	Quadrangle Bethany
Do you anticipate using more than 5.000 bbls of water to co Will a pit be used? Yes No	mplete the proposed well work? 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	
	rmit Number_ Various Approved Facilities )
Reuse (at API Number At the next Off Site Disposal (Supply form)	
Other (Explain recovery and solid	
Will closed loop system be used? If so, describe: Yes-See	Attachment 3A
Drilling medium anticipated for this well (vertical and horiz	ontal)? Air, freshwater, oil based, etc. Ardni a KCF, fluid drift with SCEM 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, remove	red offsite, etc.   landfill
-If left in pit and plan to solidify what medium will	be used? (cement, lime, sawdust)
-Landfill or offsite name/permit number? Meadowfill	SWF- 1032, Short Creek SWF-1034, Carbon Limestone MSWL018781, Wetzel County 1021
Apex Sanitary Landfill Ub-U8438, Brooke Co	SVVF-1013,
	d Gas of any load of drill cuttings or associated waste rejected at any ded within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the West provisions of the permit are enforceable by law. Violation law or regulation can lead to enforcement action.  I certify under penalty of law that I have person application form and all attachments thereto and that, be	and conditions of the GENERAL WATER POLLUTION PERMIT issued a Virginia Department of Environmental Protection. I understand that the is of any term or condition of the general permit and/or other applicable ally examined and am familiar with the information submitted on this ased on my inquiry of those individuals immediately responsible for its true, accurate, and complete. I am aware that there are significant sibility of fine or imprisonment.  **RECEIVED** Office of Oil and Gas**
Company Official (Typed Name) Brittany Woody	
Company Official Title Senior Regulatory Analyst	MAR I 6 2022
	WV Department of Environmental Protection
Subscribed and sworn before me this 19th day of	DELEMBER . 20 27
at ne	Notary Pullic JUSTIN BOOTH
My commission expires 3/1/2022	Notary Public Official Seal State of West Virginia My Company Man 1 2022 749 Richwood Ave. Apr. 5 Morgantown WY 2650

### 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.

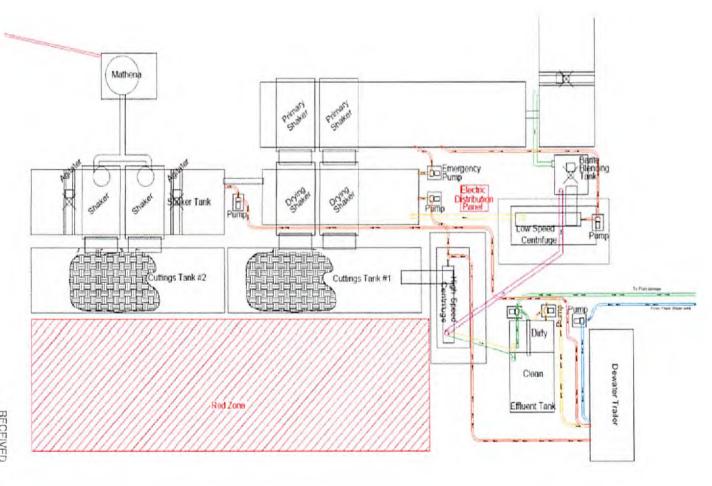
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### Solids Control Layout





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### **Attachment 3B**

### **Drilling Mediums**

### <u>Surface/Coal(if present)/Freshwater Intervals:</u>

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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Proposed Revegetation Treatment: Acres Disturbed	14.99	Prevegetation pl	I
Limeas determined by pH test min.2 Tons/acre or to co	orrect to pH 9.69		
Fertilizer type 10-20-20			
Fertilizer amount_600/500	lbs/acre		
Mulch_ Hay/Straw	Tons/acre		
	Seed Mixtures		
Temporary		Perma	nent
Seed Type Ibs/acre Attachment 3B		Seed Type	lbs/acre
	land application (unless	ss 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 (I	ss engineered plans includ Lx W x D) of the pit, and	ding this info have been I dimensions (L x W), and
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 sh	, include dimensions (I	ss engineered plans included to the pit, and	ding this info have been I dimensions (L x W), and
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.	, include dimensions (I	ss engineered plans included x W x D) of the pit, and	ding this info have been d dimensions (L x W), and
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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 sh	, include dimensions (I	ss engineered plans included a November 2 x W x D) of the pit, and	ding this info have been dimensions (L x W), and
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 shall plan Approved by:	, include dimensions (I	ss engineered plans included a W x D) of the pit, and	ding this info have been dimensions (L x W), and
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### **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	SWI	N 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	(	Apply @ 200lbs per acre Oct. 15th- April 15th PLUS bs per acre of Winter Wheat		

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

### Seeding Calculation Information:

1452' of 30' ROW/LOD is One Acre 871' of 50' ROW/LOD is One Acre 622' of 70' ROW/LOD is One Acre

#### Synopsis:

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

#### Special Considerations:

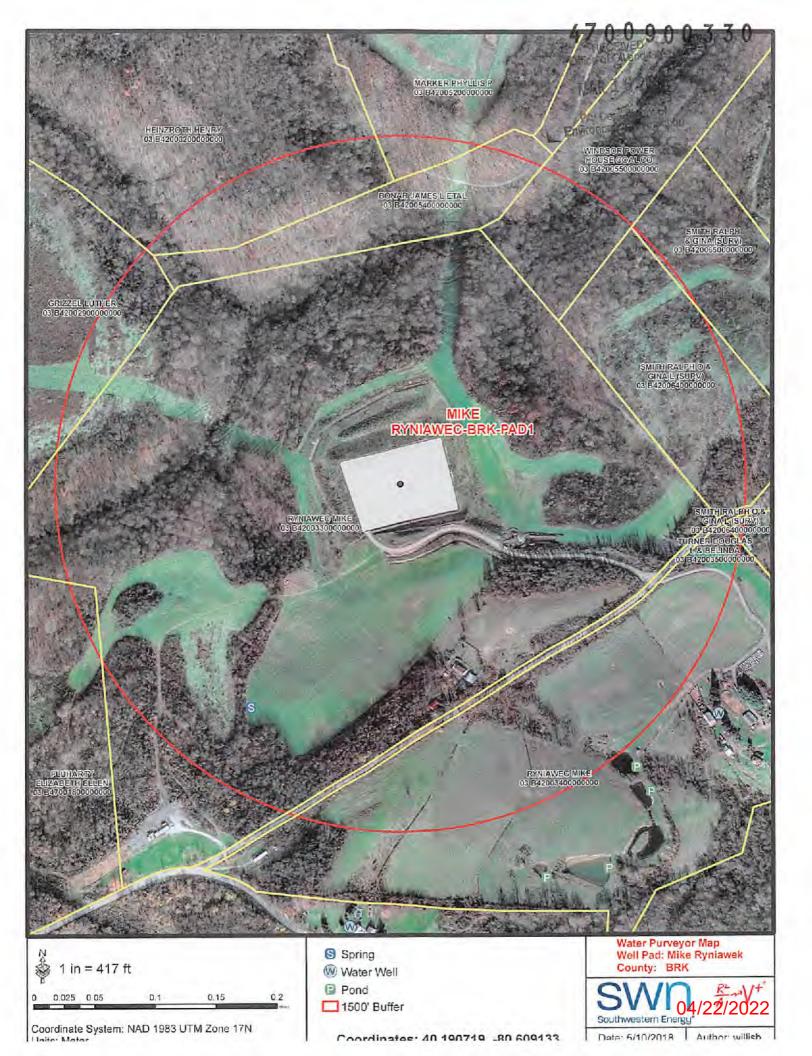
Landowner Special Considerations including CREP program participants require additional guidance that is not given here. Discuss these requirements with SWN supervision at the beginning of the project to allow time for special seed delivery.

ORGANIC PROPERTIES		
Seed Mixture: SWN Production Org	anic 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	e,	Pelletized Lime @ 2 Tons per Acre

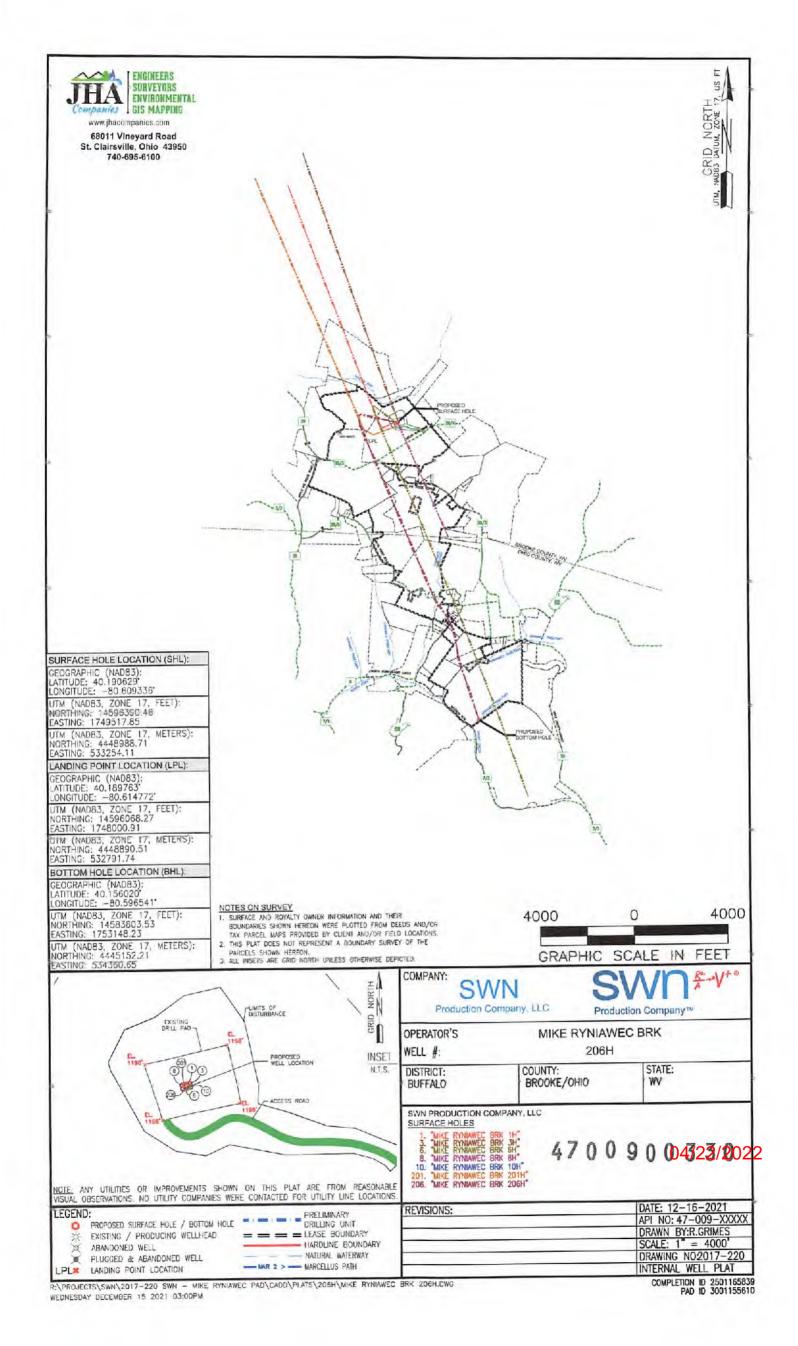
Seed Mixture: V	Vetland Mix	SWN Supplied
VA Wild Ryegrass		20%
Annual Ryegrass		20%
Fowl Bluegrass		20%
Cosmos 'Sensation'		10%
Redtop	DECENTED	5%
Golden Tickseed	n Tickseed Office of Oil and Gas	5%
Maryland Senna		5%
Showy Tickseed	MAR 1 6 2022	5%
Fox Sedge	WV Department of	2.5%
Soft Rush	Environmental Protection	2.5%
Woolgrass		2.5%
Swamp Verbena		2.5%
Appl	y @ 25lbs per acre	Apply @ 50lbs per acre
Api	ril 16th- Oct. 14th	Oct. 15th- April 15th

MIKE RYNIAWEC BRK 2064

API	Operator	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones Not Perforated
47-009-00109	SWN PRODUCTION COMPANY, LLC	ACTIVE	40.190682	-80.609353	·		
47-009-00202	SWN PRODUCTION COMPANY, LLC	ACTIVE	40.190699	80.609308			
47-009-00237	SWN PRODUCTION COMPANY, LLC	ACTIVE	40.190717	-80.609211			<u> </u>
47-009-00242	SWN PRODUCTION COMPANY, LLC	ACTIVE	40.190708	-80.602590			Office of Oil and Gas (MAR 1 6 2022 WV Department of
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OWNER	ADDRESS	CITY	STATE	ZIP	WATERSOURCES
RYNIAWEC MIKE	6 LAZEAR RUN	WHEELING	wv	26003	1



## MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN

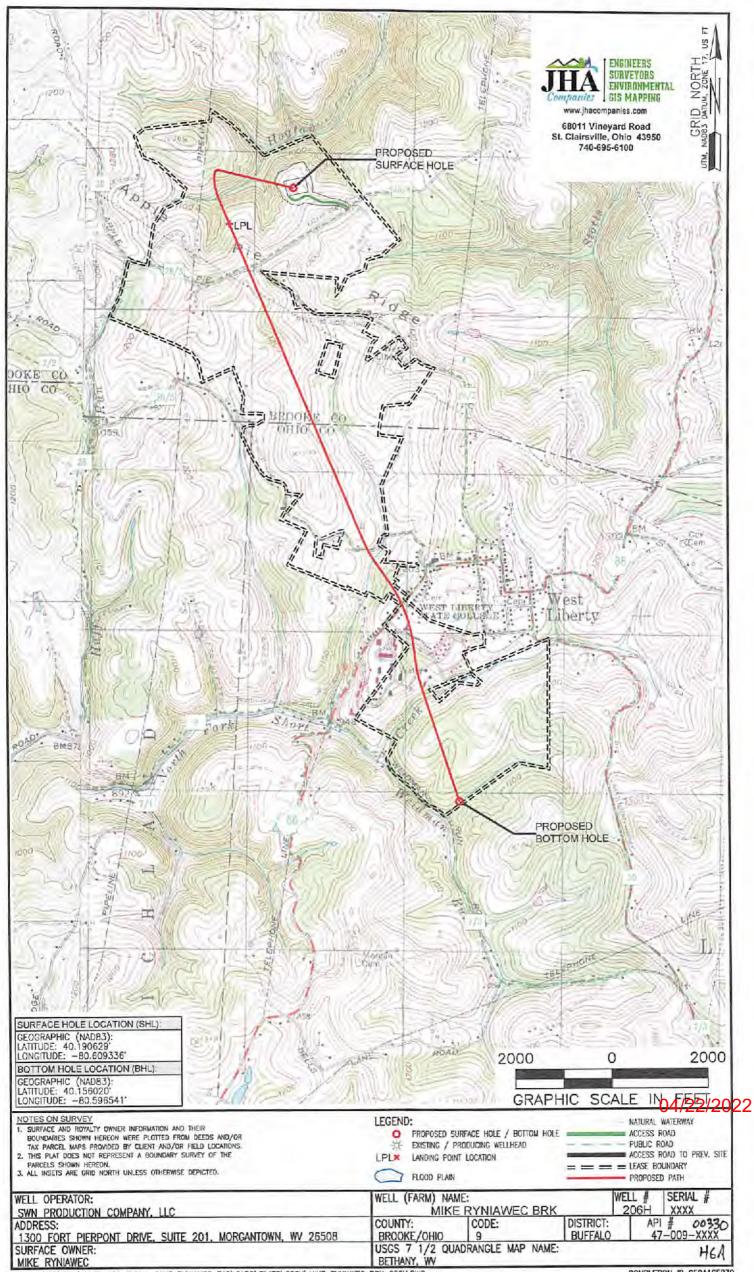


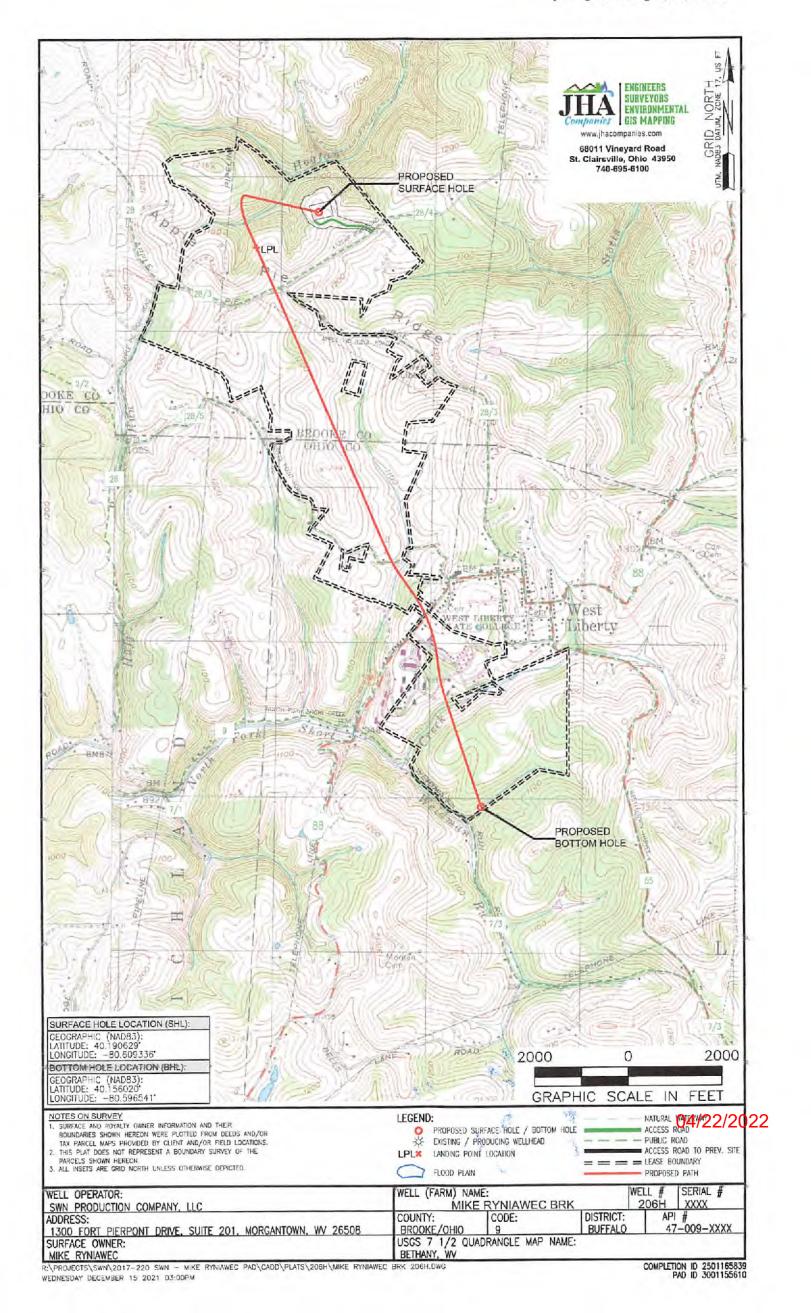
SWN Production Company, LLC 1300 Fort Pierpont Drive, Suite 201 Morgantown, West Virginia 26508

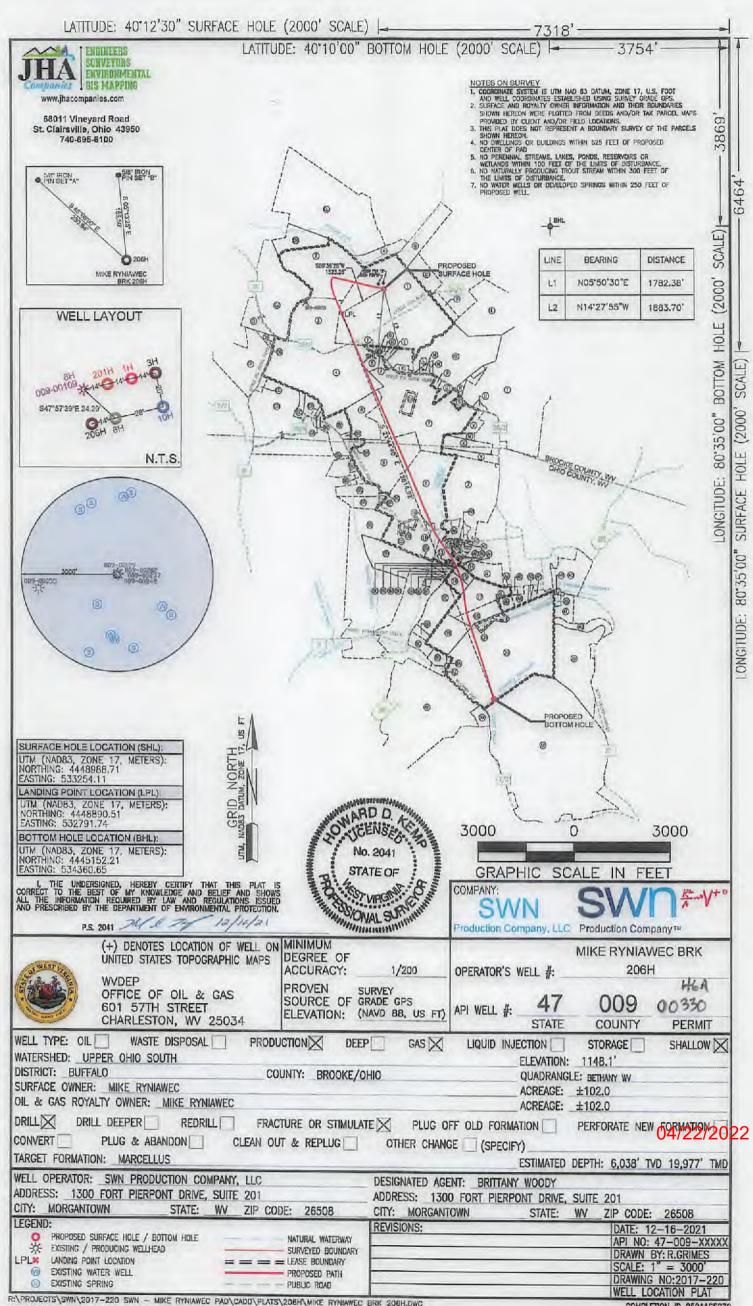
# API NO. 47-XXX-XXXXX WELL NAME: Mike Ryniawec BRK 206H Bethany QUAD Buffalo DISTRICT Brooke/Ohio COUNTY, WEST VIRGINIA

Submitted by:		
Name: Brittany Woody Suttoney Woody	Date: <u>12/14/2021</u>	
Title: Senior Regulatory Analyst	SWN Production Co., LLC	
Approved by:  Name: Hay Jan	Date: 1 7 22	RECEIVED Office of Oil and Gas MAR 1 6 2022  WV Department of Environmental Protection
Approved by:		
Name:	Date:	
Title:		

SWN PRODUCTION COMPANY, LLC - CONFIDENTIAL





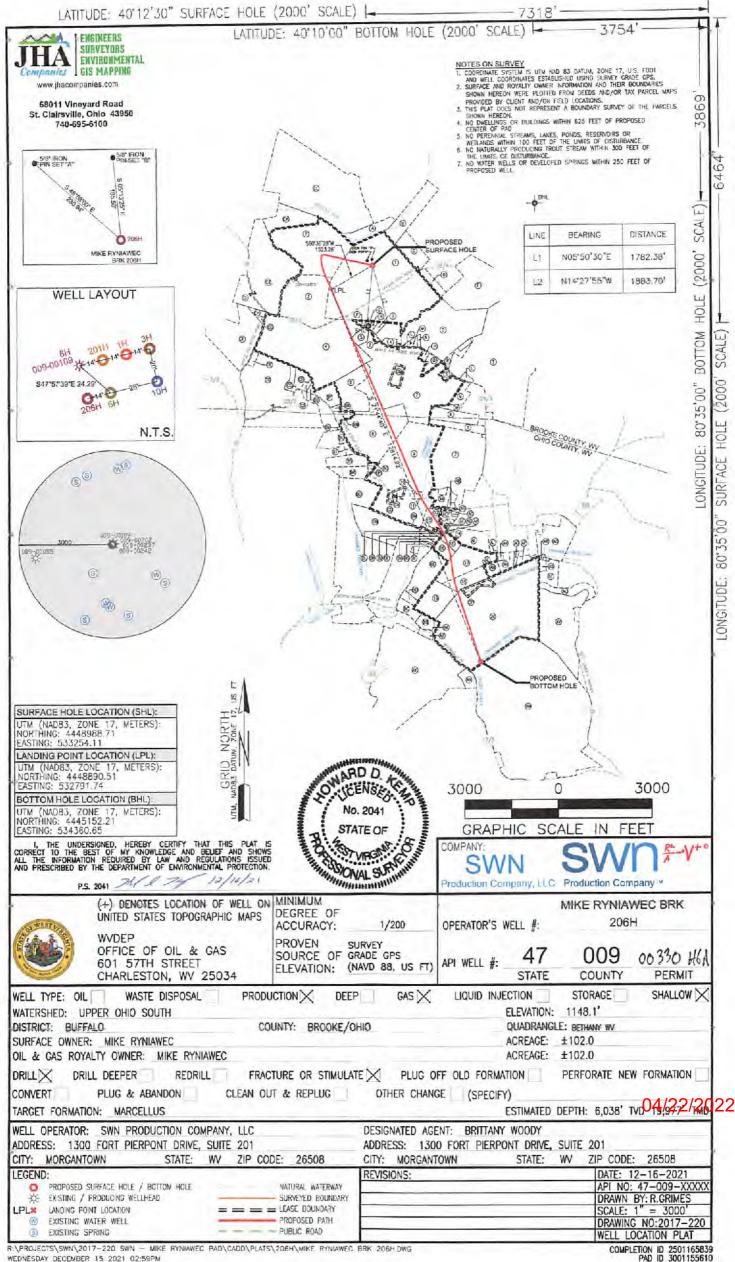


TRACT	WELL BORE TABLE FOR SURFACE/ROYALTY OWN SURFACE OWNER (S) / ROYALTY OWNER (R)	100000000000000000000000000000000000000
1	RYNIAWEC MIKE (S/R)	TAX PARCEL
TRACT		3-842-33
2	APPALACHIA MIDSTREAM SERVICES LLC	TAX PARCEL
3	FLUHARTY ELIZABETH FILEN	3-B42-29
4		3-B47-18
	BUREK JOSEPH S & JANE M	3-B47-19
5	SUTER STETSON E & WENDY S	3-847-23
6	SAYRE LAWRENCE & MARTHA (SURV)	3-B47-14
7	DWYER CAROL	3-B47-25
8	BONAR CHARLES W & CHARLOTTE R	3-1.1-2,6
9	BONAR MATTHEW P	3-L1-4
10	BONAR CHARLOTTE R	3-11-21
11	STATE OF WEST VIRGINA, DEPARTMENT OF HIGHWAYS	GIRTYS POINT ROAD
12	WEST LIBERTY FEDERATED CHURCH TRUSTEES	9-WL3-62.1
13	R & D HOLDINGS LLC	9-WL3-62
14	STATE OF WEST VIRGINA, DEPARTMENT OF HIGHWAYS	STATE ROUTE 88
15	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	3-L1-35.7
16	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	3-L1-35.6
17	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	3-L1-35.8
18	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	3-L1-35.9
19	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	3-L1-35.4
20	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	3-L1-35
	ADJOINING OWNERS TABLE	-
RACT	SURFACE OWNER	TAX PARCEL
A	BONAR JAMES L ETAL	3-B42-54
В	WINDSOR POWER HOUSE COAL CO	3-842-55
C	SMITH RALPH O & GINA L	3-B42-64
D	TURNER DOUGLAS L & BELINDA	3-B42-35
E	SCHWERTFEGER NOEL R	3-842-40
F	PAUGH LAWRENCE GRANT	3-B47-20
G	PAUGH LAWRENCE G & CATHIE SUE	3-847-21
Н	MILLER JOHN D; NEWMAN JENNIFER LYN (SURV)	3-847-22
1	GREATHOUSE ROBERT E & LAURA G	3-847-25.1
1	SPEECE THURMAN O JR & KATHY I	3-847-24
k	DWYER PHILIP R CORRISA	3-847-25.4
L	WILHELM SCOTT T	3-847-28.1
M	ABERCROMBIE WAYNE A JR	3-847-28
N	DWYER CAROL G	3-847-29
	DWYER CAROL G	3-B47-30
O P	HOOD RONALD J & BETH A	3-B47-27
	HOOD BETH ANN	0.75.00
Q		3-847-25,2
R	HARWATT TERRY D	3-B47-32.1
5	DWYWER CAROL	3-B47-25.3
T	HARWATT EDITH R & TERRY D; NEIL, SUZANNE	3-847-32
U	HARWATT TERRY D	3-B47-32.2
V	ROEDER SUSAN IRENE; FRANCIS GLEN ETAL	3-847-84
W	MILVET ROBERT W & EDITH A	3-847-42
X	ENNIS DEREK J & NICOLE L	3-B47-43
Y	ENNIS DEREK J & NICOLE L	3-1.1-43
2	ENNIS DEREK J & NICOLE L	3-L1-4.2
AA	BONAR MATTHEW P	3-L1-21.1
AB	RICE MICHAEL A & DIANA L	9-WL3-3
AC	BOARD OF GOVERNORS OF WEST LIBERTY UNIVERSITY	9-WL3-51
AD	BOARD OF GOVERNORS OF WEST LIBERTY UNIVERSITY	9-WL3-53
AE	BOARD OF GOVERNORS OF WEST LIBERTY UNIVERSITY	9-WL3-54
AF	BOARD OF GOVERNORS OF WEST LIBERTY UNIVERSITY	9-WL3-60
AG	BOARD OF GOVERNORS OF WEST LIBERTY UNIVERSITY	9-WL3-61
292	STATE BOARD OF EDUCATION WEST LIBERTY STATE	9-WL3-65
AH	COLLEGE	
Al.	PRALL CEMETERY	9-WL3-127
AJ	PELLEN HESTER S & P	9-WL7-26

RACT	SURFACE OWNER	TAX FARCEL
AL	BOARD OF EDUCATION	9-WL7-30.2
AM	BOARD OF EDUCATION	9-WL7-30.1
AN	WHEELING POWER CO WHEELING ELECTRIC CO	9-WL7-30.3
AO	READ DAVID T - TOD	9-WL7-30
AP.	FOWLER RUTH M - TOD	9-WL7-31
AQ	CUSTER KIMBERLY ANN BAUKNECHT DONNA MARIE	3-L1-36
AR	WILSON MARK W & DAWN L	3-L1-39.11
A5	BECK DAVID LEE	3-11-39.7
AT	BECK DAVID L	3-L1-39.12
AU	BEAVER JAMES H & ROBIN L	
AV		3-L1-39.14
0.04	DUVALL MARK A	3-L1-39.1
AW	MCGLUMPHY STEVEN & LORI - TOD	3-L4-110,3
AX	HUNTER JASON O	3-L4-104.2
AY	HONECKER JANET L; HONECKER ELIZABETH	3-L4-103
AZ	MONROE TIMOTHY LET AL	9-WL10-11
BA	PERRY MARY P	9-WL10-14
BB	FOWLCON LIMITED LIABILITY CD	9-WL10-13
BC	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	3-L1-35.2
BD	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	3-L1-35.3
BE	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	3-11-35,5
BF	R & D HOLDINGS LLC	9-WL6-3
BG	FRONTIER WV INC CHESAPEAKE&POTOMAC TELEPHONE	9-WL5-2
BH	HERRICK SUSAN DR	9-WL6-1
BI	CATHOLIC DIOCESE OF WHEELING -CHARLESTON	9-WL2-1
BJ	R&D HOLDINGS LLC	9-WL3-64
вк	R&D HOLDINGS LLC	9-WL3-63
BL	R & D HOLDINGS LLC	9-WL3-52.2
BM	WEST RENTALS INC	3-L1-4.3
BN	WEST RENTALS INC	3-L1-22
BO	SAMPSON DALE M	3-L1-24
BP	DAVIS ALLEN O - LE; J R GALLENTINE & T A DAVIS	3-L1-2.1
BQ	BYHANNA TIMOTHY A	3-L1-2.3
BR	PATTERSON GARRET L	3-1.1-3
	EVANS PHARES O	3-L1-2.2
BS BT	NICHOLSON CHARLES W & M C -LE; MYERS LAURA A & NICHOLSON M A	3-L1-2.4
BU	WINDSOR POWER HOUSE COAL CO C/O CNX LAND - PROPERTY TAX	3 <b>-L1-1</b>
BV	SAMPSON DALE M	4-R6-18
BW	MCCOY TERRI L	3-1.1-2.5
BX	THOMAS DOROTHY A	3-847-13
BY	SAYRE LAWRENCE & MARTHA J	3-847-12
	SMITH SANDRA;LINDA;NICHOLSON EARLENE	3-847-11
BZ	BRITTON JODY L'JANIE L	3-B47-11
CA	and the second of the second	
CB	KLEIN JACK; GEORGE JENNIFER (SURV)	3-B47-8
CC	DUNN DAVID A & CRYSTAL G	3-847-7
CD	WADE MARK A & MARY IVA SMITH	3-847-4
CE	SHARIER JOHN E III	3-847-3
CF	TUSTIN BETSY D & WOOD MARY R (JTWS)	3-B47-2.1
CG	FINSLEY ROBERT JR	3-847-1.1
CH	LAMONT JAMES	3-B47-1
CI	MAYHEW KATHY LYNN & MICHAEL ETAL (SURV)	3-842-27
CI	MAYHEW KATHY LYNN & MICHAEL ETAL (SURV)	3-B42-27
CK	APPALACHIA MIDSTREAM SERVICES LLC	3-B42-31
CL	HEINZEROTH HENRY	3-842-32
CM	DWYER CAROL	3-847-26
CN	ROTHERMUND THOMAS F & MM	3-L1-4.1
Trans.		3-1.1-21.2
CO	BONAR CHARLOTTE R	3-L1-35.1

04/22/2022

REVISIONS: SWN Production Company, LLC COMPANY: Production Company™ DATE: 12-16-2021
API NO: 47-009-XXXXX
DRAWN BY:R.GRIMES
SCALE: N/A
DRAWING NO:2017-220
WELL LOCATION PLAT
COMPLETION ID 2501165839
PAD ID 3001155810 OPERATOR'S HA MIKE RYNIAWEC BRK WELL #: 47009 CO 330
DISTRICT: COUP
BUFFALO BROW 206H COUNTY: BROOKE/OHIO STATE: WV



DATE	SURFACE DWNER (S) / ROYALTY OWNER (B)	TAX PARCEL
RACT	RYNIAWEC MIKE (S/R)	3-842-33
1		TAX PARCEL
RACT	SURFACE OWNER	
2	APPALACHIA MIDSTREAM SERVICES LLC	3-842-29
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9	BONAR MATTHEW P	3-L1-4
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20		311-33
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D	TURNER DOUGLAS L & BELINDA	3-842-35
E	5CHWERTFEGER NOEL R	3-842-40
F	PAUGH LAWRENCE GRANT	3-847-20
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N	DWYER CAROL G	3-847-29
0	DWYER CAROL G	3-847-30
p	HOOD RONALD J & BETH A	3-847-27
a	HOOD BETH ANN	3-B47-25.2
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S	DWYWER CAROL	3-B47-25.3
T	HARWATT EDITH R & TERRY D; NEIL, SUZANNE	3-847-32
_	HARWATT TERRY D	3-847-32.2
U	ROEDER SUSAN IRENE; FRANCIS GLEN ETAL	3-847-34
V		3-847-42
W	MILVET ROBERT W & EDITH A	
X	ENNIS DEREK J & NICOLE L	3-847-43
Y	ENNIS DEREK J & NICOLE L	3-L1-43
Z	ENNIS DEREK J & NICOLE L	3-L1-4.2
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AH Al	COLLEGE  PRALL CEMETERY	9-WL3-127

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AN		9-WL7-30
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ВН	HERRICK SUSAN DR	9-WL6-1
BI	CATHOLIC DIOCESE OF WHEELING -CHARLESTON	9-WL2-1
B)	R&D HOLDINGS LIC	9-WL3-64
вк	R&D HOLDINGS LLC	9-WL3-63
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BN	WEST RENTALS INC	3-L1-22
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BQ	BYHANNA TIMOTHY A	3-L1-2.3
	PATTERSON GARRET L	3-L1-3
BR BS	EVANS PHARES O	3-L1-2.2
BT	NICHOLSON CHARLES W & M C -LE; MYERS LAURA A & NICHOLSON M A	3-L1-2.4
BU	WINDSOR POWER HOUSE COAL CO C/O CNX LAND - PROPERTY TAX	3-11-1
ви	SAMPSON DALE M	4-R6-18
BW	MCCOY TERRUL	3-L1-2.5
8X	THOMAS DOROTHY A	3-847-13
ВУ	SAYRE LAWRENCE & MARTHA J	3-847-12
BZ	SMITH SANDRA;LINDA;NICHOLSON EARLENE	3-B47-11
CA	BRITTON JODY L;JANIE L	3-847-10
СВ	KLEIN JACK; GEORGE JENNIFER (SURV)	3-847-8
CC	DUNN DAVID A & CRYSTAL G	3-847-7
CD	WADE MARK A & MARY IVA SMITH	3-B47-4
CE	SHARIER JOHN E III	3 847 3
CF	TUSTIN BETSY D & WOOD MARY R (JTWS)	3-847-2.1
	FINSLEY ROBERT JR	3-847-1.1
CG	LAMONT JAMES	3-B47-1
CH	MAYHEW KATHY LYNN & MICHAEL ETAL (SURV)	3-B42-27
CI		3-B42-27
CI	MAYHEW KATHY LYNN & MICHAEL ETAL (SURV)	
CK	APPALACHIA MIDSTREAM SERVICES LLC	3-842-31
CL	HEINZEROTH HENRY	3-842-32
CM	DWYER CAROL	3-B47-26
CN	ROTHERMUND THOMAS F & MM	3-11-4.1
CO	BONAR CHARLOTTE R	3-L1-21.2

4700900330

REVISIONS:	COMPANY:	SWN Production Company, LLC		SWI Production Company IM
	OPERATOR'S WELL #:	MIKE RYNIAV 206H		DATE: 12–16–2021 API NO: 47–009–XXXXX DRAWN BY:R.GRIMES
	DISTRICT: BUFFALO	COUNTY: BROOKE/OHIO	STATE: WV	SCALE: N/A DRAWING NO:2017-220 WELL LOCATION PLAT

Operator's-Well No. MIKE RYNIAWEC BRK 206H

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

RECEIVED Office of Oil and Gas

MAR 1 6 2022

WV Department of Environmental Protection

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

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

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

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

SWN Production Co., LLC	Ye.
	Gavin Nadeau, RPL
	Landman
	SWN Production Co., LLC

Page 1 of Z

# EXHIBIT "A" Mike Ryniawee BRK 206H Othio County and Brooks County, West Virginia Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6AI, by SWN Production Company, LLC, Operator LESSOR LESSEE ROYALT Reyniawee, a married man dealing in his sole and separate property Chesapeake Appalachia, L.L.C. SWN Production Company, LLC -

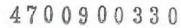
#	TMP	LESSOR	LESSEE	ROYALTY	BK/PG
1)	03-0B42-0033-0000	Mike Ryniawee, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	18.00%	14/757
		and the second s	SWN Production Company, LLC		30/480
2)	03-0B42-0029-0000	Luther Grizzel, married	Ghosepethis Apphlactin, L.L.C.	18.00%	14/9
			SWN Production Company, LLC		30/480
3)	03-0847-0018-0000	Elizabeth Hilen Flukuty, widow	Great Lakes Energy Partners, L.L.C.	12.50%	10/19
			Chesapeako Appalachia, L.L.C.		10/552 30/480
			SWN Production Company, LLC	10.504	
4)	03-0B47-0019-0000	Joseph S. Burek and Jane M. Burek, husband and wife	Great Lakes Energy Partners, L.L.C.	12.50%	10/88
			Chesapeake Appalachia, L.L.C.		10/552 30/480
			SWN Production Company, LLC	18.00%	21/147
5)	03-0B47-0023-0000	Stotson E. Suter and Wendy S. Suter, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	30/480
			SWN Production Company, I.L.C. Chesapeake Appalachingh.L.C.	18.00%	12/688
6)	03-0B47-0014-0000	Lawrence Sayre and Martha Sayre, husband and wife	SWN Production Company, LLC	18.0076	30/480
	44 40 48 6444 6466	P. LIV. I. D. L. V. L. V. L. V.	Chesapeake Appalachia, L.L.C.	18.00%	14/13
7)	03-0B47-0025-0000	Ronald Hood and Bath A. Hood, husband and wife	SWN Production Company, LLC	10.00%	30/480
		11 11 - Ol-1 1 Ol-1 Ol-1 (Ol-1 Ol-1 Ol-1 Ol-1 1 1 1 1		18.00%	14/56
		Harry Allen Shain and Carol Shain (f/k/a Carol S. Flaherty), husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	30/480
		No. 1, W. William and Donne V. William hand and and and and	and the second s	18.00%	14/66
		Mark W. Wilson and Dawn L. Wilson, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	30/480
		Labor D. William and Lama I. William burkened and mile		18.00%	15/302
		John R. Wilson and Irene J. Wilson, busband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	30/480
	03-00L1-0002-0006	Tarif McGardial	Chesapeake Appalachia, L.L.C.	18.00%	813/254
8)	03-001,1-0002-0006	Terri L. McCoy, single	SWN Production Company, LLC	18.00%	884/1
9)	U3-U0L1-0004-0000	Mary Neshit, wk/a Mary Zito, widow	Chesapeake Appalachia, L.L.C.	18.00%	826/182
9)	03-0021-000-0000	Mally (wester, was a mary 2,00), window	SWN Production Company, LLC	18.007	885/632
		Linda Orr a/k/a Linda Morgan, married	Chesapeako Appalachia, L.L.C.	18.00%	826/223
		Linda Off avida Linda Morgan, Interried	SWN Production Company, LLC	10,00%	885/632
		John William Orr, Jr., married	Chesapeake Appalachia, L.L.C.	18.00%	826/228
		John William Oli, Jr., marred	SWN Production Company, LLC	18.007	885/632
		John Robert Bonar, married	Chesapeake Appalachia, L.L.C.	18.00%	826/233
		Additional Data, marion	SWN Production Company, LLC	10.007	885/632
10)	03-00L1-0021-0000	Mary Nesbit, a/k/a Mary Zito, widow	Chesapeake Appalachia, L.L.C.	18.00%	826/182
,	03-0021-0000	The state of the s	SWN Production Company, LLC	*0.0072	885/632
		Linda Orr a/kra Linda Morgan, married	Chesapeake Appalachia, L.L.C.	18.00%	826/223
			SWN Production Company, LLC		885/632
		John William Orr, Jr., married	Chesapeake Appalachia, L.L.C.	18.00%	826/228
			SWN Production Company, LLC	•=	885/632
		John Robert Bonar, married	Chesapeake Appalachia, L.L.C.	18.00%	826/233
			SWN Production Company, LLC		885/632
11)	GIRTYS POINT ROAD	West Virginia Department of Transportation, Division of Highways	Chesapeake Appalachia, L.L.C.	15.00%	868/287
•			SWN Production Company, LLC		883/778
12)	09-0WL3-0062-0001	West Liberty Federated Church	Fossil Crock Ohio, LLC	18.00%	872/47
		•	Gulfport Energy Corporation		893/392
			American Petroleum Partners Operating, LLC		909/775
			SWN Production Company, LLC		951/1
13)	09-0WL3-0062-0000	Brian J. Conway and Allison R. Conway, busband and wife	Chesapeako Appalachia, L.L.C.	18.00%	835/124
			SWN Production Company, LLC		885/704
14)	STATE ROUTE 88	West Virginia Department of Transportation, Division of Highways	Chesapeake Appalachia, L.L.C.	15.00%	830/11
			SWN Production Company, LLC	********	883/620
15)	03-00L1-0035-0007	The Board of Governors of West Liberty University, f/k/a West Liberty State College	Chesapeako Appalachia, L. L.C.	18.00%	812/556
			SWN Production Company, LLC		883/575
16)	03-00L1-0035-0006	The Board of Governors of West Liberty University, f/k/a West Liberty State College	Chesapeake Appalachia, L.L.C.	18.00%	812/556
			SWN Production Company, LLC		883/575
17)	03-00L1-0035-0008	The Board of Governors of West Liberty University, Diva West Liberty State College	Chesapeake Appalachia, L.L.C.	18.00%	812/556
			SWN Production Company, LLC		883/575
18)	03-00L1-0035-0009	The Board of Governors of West Liberty University, f/k/a West Liberty State College	Chesapeake Appalachia, L.L.C.	18.00%	812/556
•			SWN Production Company, LLC		883/575
19)	03-00L1-0035-0004	The Board of Governors of West Liberty University, f/k/a West Liberty State College	Chesapeake Appalachia, L.L.C.	18.00%	812/556
			SWN Production Company, LLC		883/575
20)	03-00L1-0035-0000	The Board of Governors of West Liberty University, f/k/a West Liberty State College	Chesapoulto Appalachia, L.L.C.	18,00%	812/556
			SWN Production Company, LLC		883/575
_					

END OF EXHIBIT "A"

RECEIVED Office of Oil & Gas

MAR 1 6 2022

WV Department of Environmental Protection





March 2, 2022

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

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

RECEIVED Office of Oil and Gas

MAR 1 6 2022

WV Department of Environmental Protection

RE: SWN's proposed New Well: Mike Ryniawec BRK 206H in Brooke County, West Virginia, Drilling under Lazear Run Road, Apple Pie Ridge Road, State Route 88 and Gritys Point 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 Lazear Run Road, Apple Pie Ridge Road, State Route 88, and Gritys Point Road. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Sincerely,

SWN Production Company, LLC

Gavin Nadeau, RPL

Landman

The Right People 40/19 wisely investing the ce underlying Assats, will create Value

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

	ee Certification: 3		Operator's Well No. Mike Rynaiwec BRK 206H Well Pad Name: Mike Rynaiwec BRK Pad		
Notice has I	seen given:		Well I au	vaine.	
Pursuant to th		§ 22-6A, the Operator has pro	ovided the rec	quired parties with the Notice Forms listed	
State:	West Virginia	LITALNIAD 92	Easting:	533,254.11	
County:	009- Brooke/089-Ohio	UTM NAD 83	Northing:	4,448,988.71	
District:	Buffalo	Public Road Acc	cess:	Lazear Run Road	
Quadrangle:	Bethany	Generally used t	farm name:	Mike Ryniawec	
Watershed:	Upper Ohio South				

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

Pursuant to West Virginia Code § 22-6A, the Opthat the Operator has properly served the require *PLEASE CHECK ALL THAT APPLY	perator has attached proof to this Notice Certification d parties with the following:	OOG OFFICE USE ONLY
☐ 1. NOTICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	☐ RECEIVED/ NOT REQUIRED
☐ 2. NOTICE OF ENTRY FOR PLAT SURV	YEY or   NO PLAT SURVEY WAS CONDUCTED	☐ RECEIVED
3. NOTICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	RECEIVED/ NOT REQUIRED
	☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
■ 4. NOTICE OF PLANNED OPERATION	RECEIVED	☐ RECEIVED
■ 5. PUBLIC NOTICE	Office of Oil and Gas	☐ RECEIVED
6. NOTICE OF APPLICATION	WAR 1 6 2022  WV Department of Environmental Protection	☐ RECEIVED

### Required Attachments:

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

### 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 By:

**Brittany Woody** 

Its: Senior Regulatory Analy

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

Morgantown, WV 26508

304-884-1690 Facsimile:

Email: Brittany Woody@swn.com

NOTABUSTAN BOOTH Notary Public Official Seal State of West Virginia My Comm. Expires Mar 1, 2022 749 Richwood Ave. Apt. 5 Morgantown WV 26505 Subscribed and sworn before me this 14 h day of DECEMBER 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.

> RECEIVED Office of Oil and Gas

MAR 1 6 2022

WV Department of Environmental Protect WW-6A (9-13) 47009 900330
API NO. 47-009 - OPERATOR WELL NO. Mike Hynaiwag BPK 208H

OPERATOR WELL NO. Mike Rynawco BRK 208H Well Pad Name: Mike Rynawco BRK Pad

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

Notice Time Requirement: notice shall be provided no la	ter than the filing date of permit application.
Date of Notice: 25 Date Permit Application Filed	1:3115
Notice of:	7113
Notice of.	
☑ PERMIT FOR ANY ☐ CERTIFICATE OF	F APPROVAL FOR THE
WELL WORK CONSTRUCTION	OF AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-	6A-10(b)
□ PERSONAL □ REGISTERED □ N	METHOD OF BELLWEDY THAT BEOLUDES A
	METHOD OF DELIVERY THAT REQUIRES A
SERVICE MAIL F	RECEIPT OR SIGNATURE CONFIRMATION
sediment control plan required by section seven of this article the surface of the tract on which the well is or is proposed to loil and gas leasehold being developed by the proposed well we described in the erosion and sediment control plan submitted operator or lessee, in the event the tract of land on which the word coal seams; (4) The owners of record of the surface trace well work, if the surface tract is to be used for the placement, impoundment or pit as described in section nine of this article have a water well, spring or water supply source located within provide water for consumption by humans or domestic anima proposed well work activity is to take place. (c)(1) If more that subsection (b) of this section hold interests in the lands, the apprecords of the sheriff required to be maintained pursuant to se provision of this article to the contrary, notice to a lien holder	ceipt or signature confirmation, copies of the application, the erosion and and the well plat to each of the following persons: (1) The owners of record of the located; (2) The owners of record of the surface tract or tracts overlying the ork, if the surface tract is to be used for roads or other land disturbance as pursuant to subsection (c), section seven of this article; (3) The coal owner, well proposed to be drilled is located [sic] is known to be underlain by one or to reacts overlying the oil and gas leasehold being developed by the proposed construction, enlargement, alteration, repair, removal or abandonment of any; (5) Any surface owner or water purveyor who is known to the applicant to none thousand five hundred feet of the center of the well pad which is used to is; and (6) The operator of any natural gas storage field within which the in three tenants in common or other co-owners of interests described in applicant may serve the documents required upon the person described in the ection eight, article one, chapter eleven-a of this code. (2) Notwithstanding any is not notice to a landowner, unless the lien holder is the landowner. W. Va, also provide the Well Site Safety Plan ("WSSP") to the surface owner and any esting as provided in section 15 of this rule.
☐ Application Notice ☐ WSSP Notice ☐ E&S Plan N	totice  Well Plat Notice is hereby provided to:
☑ SURFACE OWNER(s)	☐ COAL OWNER OR LESSEE
Name: Mike Ryniawee	Name: Windsor Coal Company
Address: 6 Lazear Wilhelm Road Wheeling, WV 26003	Address: 1000 Consol Energy Drive
Name:	Canonsburg, PA 15317  COAL OPERATOR
Address:	Noma
Address,	
SURFACE OWNER(s) (Road and/or Other Disturbance	Address:
Name:	SURFACE OWNER OF WATER WELL
Address:	AND/OR WATER PURVEYOR(s)
	Name: See Attachment 13A
Name:	Address:
Address:	
- CLIPP LOT OUN TRY ( ) (I	☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD
SURFACE OWNER(s) (Impoundments or Pits)	Name:
Name:	Address:
Address:	*Please attach additional forms if necessary BECFIVED
	*Please attach additional forms if necessary RECEIVED  Office of Oil and Gas

MAR 1 6 2022

Environment 2/2022

Notice is hereby given:

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

#### This Notice Shall Include:

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

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

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

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

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.gov/ofl-and-gas/pages/default.aspx">www.dep.wv.gov/ofl-and-gas/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 take or reservoir, the distance shall be measured from the boundary of the take or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary, (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A (8-13) API NO. 47-009 OPERATOR WELL NO. Mike Rynahwac BRK 206H
Well Pad Name: Mike Rynahwac BRK Pad

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

### Water Well Testing:

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

### Water Testing Laboratories:

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

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

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

WW-6A (8-13) API NO. 47-009 9 0 0 3 3 0

Well Pad Name: Mike Ryniawec BRK Pad

### Time Limits and Methods for Filing Comments.

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

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

### **Comment Requirements**

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

Disclaimer: All comments received will be placed on our web site <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 safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

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

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

WW-6A (8-13)

OPERATOR WELL NO. Mike Ryna wec BRK 206H Well Pad Name: Mike Ryniawec BRK Pad

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 depprivacyofficer@wv.gov.

JUSTIN BOOTH Notary Public Official Seal State of West Virginia My Comm. Expires Mar 1, 2022 749 Richwood Ave. Apt. 5 Morgantown WV 26505

Subscribed and sworn before me this 14th day of December 2021

Notary Public

My Commission Expires

WW-6A4 (1/12)

### 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 Notice	Requirement: Notice shall be provided at e. 12/06/2021 Date Per	t least TEN (10) days prior (3) filing a mit Application Filed:	permit application.  RECEIVED Office of Oil and Gas
Delivery met	nod pursuant to West Virginia Code § 2	22-6A-16(b)	
		2 0.1 10(0)	MAR 1 6 2022
☐ HAND DELIVE	■ CERTIFIED MAIL RY RETURN RECEIPT REC	QUESTED	WV Department of Environmental Protection
receipt request drilling a hori: of this subsect subsection ma and if availabl	ted or hand delivery, give the surface own zontal well: <i>Provided</i> , That notice given ion as of the date the notice was provided	ner notice of its intent to enter upon the pursuant to subsection (a), section to to the surface owner: <i>Provided, hower</i> . The notice, if required, shall includes of the operator and the operator	an operator shall, by certified mail return the surface owner's land for the purpose of an of this article satisfies the requirements ovever. That the notice requirements of this add the name, address, telephone number, r's authorized representative.
	tyniawec	Name:	
Address: 6 Laze		Address:	
vvneel	ing, WV 26003		
State: County: District:	ner's land for the purpose of drilling a ho West Virginia Brooke/Ohio Buffelo	UTM NAD 83 Easting: Northing: Public Road Access:	533,254.11 4,448,988.71 Lazear Run Road
Quadrangle:	Bethany, WV	Generally used farm name:	Mike Ryniawec BRK
Watershed:	Upper Ohio South		
Pursuant to W facsimile num related to hori	ber and electronic mail address of the contal drilling may be obtained from the	operator and the operator's authorize Secretary, at the WV Department o	ess, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.
	eby given by:		
	SWN Production Company, LLC	Authorized Representative:	Mike Yates
Address:	1300 Fort Pierpont Drive, Suite 201	Address:	1300 Fort Pierpont Drive, Suite 201
	Morgantown, WV 26508		Morgantown, WV 26508
Telephone:	304-884-1714	Telephone:	304-884-1714
Email: Facsimile:	michael_yates@swn.com	Email: Facsimile:	michael_yates@swn.com

### 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>.

Sperator Well No. Man Hymanic Bax 20ch

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

	and the second second second second	CALL DISTRICT WALLET		
Delivery met	hod pursuant to West Virginia C	ode § 22-6A-16(c)		
■ CERTI	FIED MAIL	☐ HAND		
	RN RECEIPT REQUESTED	DELIVERY		
return receipt the planned of required to be drilling of a damages to th (d) The notice of notice.  Notice is her	requested or hand delivery, give the operation. The notice required by a provided by subsection (b), section horizontal well; and (3) A propose as surface affected by oil and gas on as required by this section shall be seen provided to the SURFACE O	the surface owner whose land withis subsection shall include: In ten of this article to a surface of surface use and compensation of the extent the dama given to the surface owner at the terminal of the surface owner at the terminal owner at the te	ill be used for (1) A copy of owner whose on agreement iges are comp	eation, an operator shall, by certified main of the drilling of a horizontal well notice of of this code section; (2) The information is land will be used in conjunction with the thic containing an offer of compensation for opensable under article six-b of this chapter, ted in the records of the sheriff at the time
	s listed in the records of the sheriff Rynlawec	at the time of notice):  Name:		
	1 STILL HOE	ranc.		
	ear Wilhelm Rd.	Address		
Address: 6 Lar Whee Notice is her Pursuant to W operation on	eby given: /est Virginia Code § 22-6A-16(c), i the surface owner's land for the pu		ell on the trac	
Address: 6 Lar Whee Notice is her Pursuant to W operation on State: County:	eby given: /est Virginia Code § 22-6A-16(c), i the surface owner's land for the pu West Virginia Brooke/Ohio	notice is hereby given that the urpose of drilling a horizontal w	ell on the trac Easting: Northing:	ot of land as follows: 533,254,11 4,448,988,71
Address: 6 Lar Whee Notice is her Pursuant to W operation on State: County: District:	eby given: /est Virginia Code § 22-6A-16(c), i the surface owner's land for the pu West Virginia Brooke/Ohio Buffalo	notice is hereby given that the urpose of drilling a horizontal w UTM NAD 83 Public Road Acc	ell on the trac Easting: Northing: cess:	ct of land as follows: 533,254.11 4,448,988.71 Lazear Run Road
Address: 6 Laz Whee Notice is her Pursuant to W	eby given: /est Virginia Code § 22-6A-16(c), i the surface owner's land for the pu West Virginia Brooke/Ohio	notice is hereby given that the urpose of drilling a horizontal w	ell on the trac Easting: Northing: cess:	ot of land as follows: 533,254,11 4,448,988,71
Address: 6 Laz Whee Notice is her Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice 5 Pursuant to Wood to be provided horizontal we surface affect information re- headquarters,	eby given:  /est Virginia Code § 22-6A-16(c), if the surface owner's land for the put West Virginia  Brooke/Ohio  Buffalo  Bethany, WV  Upper Ohio South  Shall Include:  /est Virginia Code § 22-6A-16(c), and by W. Va. Code § 22-6A-10(b) and (3) A proposed surface use ed by oil and gas operations to the elated to horizontal drilling may be located at 601 57th Street, SE,	notice is hereby given that the urpose of drilling a horizontal w  UTM NAD 83  Public Road Acc Generally used for this notice shall include: (1)A control to a surface owner whose larged and compensation agreement control to extent the damages are compered obtained from the Secretary	ell on the trac Easting: Northing: eess: arm name: eopy of this c nd will be u containing an pensable under, at the WV	ct of land as follows:  533,254.11  4,448,988.71  Lazear Run Road  Mike Ryniawec BRK  code section; (2) The information required sed in conjunction with the drilling of a offer of compensation for damages to the er article six-b of this chapter. Additiona Department of Environmental Protection
Address: 6 Laz Whee  Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed:  This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def	eby given: /est Virginia Code § 22-6A-16(c), 1 the surface owner's land for the pu West Virginia Brooke/Ohio Buffalo Bethany, WV Upper Ohio South  Shall Include: /est Virginia Code § 22-6A-16(c), ed by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use ed by oil and gas operations to the elated to horizontal drilling may be located at 601 57th Street, SE, ault.aspx.	notice is hereby given that the urpose of drilling a horizontal w  UTM NAD 83  Public Road Acc Generally used for this notice shall include: (1)A contour to a surface owner whose larged and compensation agreement of extent the damages are compose obtained from the Secretary Charleston, WV 25304 (30-	ell on the trac Easting: Northing: sess: farm name: copy of this c and will be u containing an bensable under, at the WV 4-926-0450)	et of land as follows:  533,254.11  4,448,988.71  Lazear Run Road  Mike Ryniawec BRK   code section; (2) The information required sed in conjunction with the drilling of a offer of compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
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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.

RECEIVED
Office of Oil and Gas

MAR 1 6 2022



### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

D. Alan Reed, P.E. Charleston, West Virginia 25305-0430 • (304) 558-3505
State Highway Engineer

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

October 29, 2021

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 Mike Ryniawec Pad, Brooke County
Mike Ryniawec BRK 206H Well Site

RECEIVED Office of Oil and Gas

MAR 1 6 2022

WV Department of Environmental Protection

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2011-0475 which has been transferred to Southwestern Production Company, LLC for access to the State Road for a well site located off Brooke County Route 28/4 SLS MP 0.37.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Gary K. Clayton, P.E.

Dary K. Clayton

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Brittany Woody

Southwestern Production Company, LLC

CH, OM, D-6

File

### Attachment VI Frac Additives

Product Name	Product Use	Chemical Name	107-21 1
AI-303 (U.S. Well Services)	Mixture	Ethylene glycol	107-21 1
		Cinnamaldehyde	111-76 2
		Butyl cellosolve	54-18 6
		Fermic acid	Proprietary
		Polyether Acetophenone, thiourea, formaldehyde polymer	58527-49 1
	Bucchia	Ammonium persulfate	7727-54-0
AP ONE (U.S. Well Services)	Breaker		111-30-8
Bactron K-139 (Champion Technologies)	Biocide	Glutaraldehyde	111-30-8
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyld methyl, Chlorides	68424-85-1 64-17-5
Bactron K-219 (Champion Technologies)	Biocide	Ethanol Methanol	67-56-1
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	58424-85-1
a l line	T	Ceramic Proppant	66402-58-4
CarboNRT	Tracer		
C6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate Ethylene Glycol	Proprietary 107-21-1
	w. 11		7722-84-1
C6734A (Champion Technologies)	Blocide	Hydrogen Peroxide Acetic Acid	64-19-7
		Peroxyacetic Acid	79-21-0
	A		40.004.4
Scono-CI200 (SWN Well Services)	Corresion Inhibitor	Methanol	68951-67-7
		Methanol Oxyalkylated fatty acid Fatty acids Modified thiourea polymer Water Hydrochloric acid Potassium acetate Formaldehyde MAR 16 2022	61790-12-3
		Modified thiourea polymer HEGEN and Gas	68527-49-1
		Water Office of One	7732-18-5
		Hydrochloric acid	7647-01-0
		Potassium acetate	127-08-2
		Formaldehyde  Acetic Acid  Citric Acid  When Protein P	50-00-0
Legge (external tree	LONG-COM.	no maidelyde	64-19-7
Ecopol-FEAC (SWN Well Services)	Iron Control	Acetic Acid MV Depart Protes	77-92-9
		Water Environments	77-92-9
			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	54674-47-8
		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
HCL (SWN Well Services)	Hydrocholic Acid	Hydrochloric Acid	7647-01-0
		Water	7732-18-5
.P-65 MC (Halliburton)	Scale Inhibitor	Organic phosphonate	Proprietary
		Ammonium Chloride	12125-02-9
OPTI-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	54742-47-8
Plexslick 930	Friction Reducer	Copolymer of 2-propenamide	Proprietary
25000000		Hydrotreated Distillate	64742-47-8
		Sodium Chloride	7647-14-5
		Alcohols, C12-16, Exoxylated	68551-12-2
		Oleic Acid Diethanolamide	93-83-4
		Ammonium Chloride	12125-02-9
Plexslick 953	Friction Reducer	Petroleum Distillate	64742-47-8
		Sodium Chloride	7647-14-5
		Ammonium Chloride	12125-02-9
		N,N-bis (2-hydroxyethyl) cleamide	93-83-4
Plexslick 957	Friction Reducer	Petroleum Distillate	64742-47-8
	, , , and , teamen	Ammonium Chloride	12125-02-9
		Oleic Acid Diethanolamide	93-83-4
		Alcohols, C12-15, Exoxylated	68551-12-2
		Water	7732-15-5
VFRA-2000 (U.S. Well Services)	Anionic Friction Reducer	Hydrotreated light distillate (petroleum)	64742-47-8
and the same of th	The street of the state of	Propenoic acid, polymer with propenamide	9003-06 9
Plexaid 655 NM	Scale Inhibitor	Diethylenetriamine penta (methylene phosphonic acid)	15827-30-8
Plexslick 922	no data available	Copolymer of 2-propenaminde	69418-26-4
	- see evenuelt	Distillates (petroleum), hydotreated light	64742-47-8
		Ammonium chloride ((NH4)CI)	12125-02-9
		Oleic Acid Diethnolamide	93-83-4
olcide PS50A	Biocidal product	Tetrakis (hydroxymethyl) phosphonium sulphate	55566-30-8
Was Activity	- July by Annay	Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate	22200 20-0
		groups	397255-50-7
D-2950	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
		Ethoxylated alcohol	Proprietary
			Total Colonial Coloni
pgand I D. 775014	Canla Caracat	Poly (oxy-1.2-ethanediyl) alphatridecylomegahydroxy-, branched	69011-36-5
egend LD-7750W	Scale Control	Methanol September 12 April 5-15	67-56-1
		Phosphonic Acid Salt	Proprietary
MC MX 8-4743	Specialty Product	Sodium Nitrate	7631-99-4

04/22/2022

#### WEST VIRGINIA811 CALL BEFORE Dial Sllor 800.245.4848

AT LEAST 48 HOURS, BUT NOT MORE THAN 10 WORKING DAYS (EXCLUDING MEMERING AND INCIDAYS), PRIOR TO IN STAFFING ANY EARTH INSTRUBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THESE ACTIVITIES SHALL CONTRACT MISS UTILITY OF WEST MICRIAL AT 611 OR 1-1000-245-4646.

### AS-BUILT SITE PLAN

### MIKE RYNIAWEC BRK PAD "A"

**BUFFALO DISTRICT, BROOKE COUNTY, WV** 





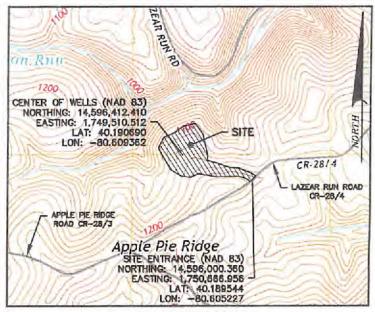
AS SHOWN 01/21/2016

SCALE: DWG. N DATE:

BY:

PROJECT . LOCATION PENNSYLVANIA MARYLAND A NECHOLAS VIRGINIA KENTUCKY

COUNTY MAP



LOCATION MAP

SCALE - 1"=1000"

TOTAL DISTURBED AREA: 14.99 ACRES ROAD DISTURBED AREA: 5.30 ACRES PAD DISTURBED ACRES: 9.69 ACRES ACCESS ROAD LENGTH: 1,340° ACCESS ROAD AVERAGE WIDTH: 20' WELL PAD ELEVATION: 1147.4

### API NUMBERS

SITE DATA

NUMBER API 009-00109

CELLAR CELLAR MATERIAL B FT B FT

COVER SHEET FOR RYNIAWEC

2

V

PAD

BRK

MIKE

THIS ENGINEER'S CERTIFICATION COVERS UPDATING THE MIKE RYNIAWEC BRK PAD "A" TO CURRENT WEST VIRGINIA STANDARDS AND COVERS ONLY THE ADDITION OF THE CONTAINMENT BERM, MOUNTABLE BERM AT THE PAD ENTRANCE AND THE RECLAMATION

PRINTED NAME: ERIC W. HERSHEY, PE SIGN NAME: WHOMAY

Southwestern Energy'

**OPERATOR** 

SWN PRODUCTION CO., LLC P.O. BOX 1300 JANE LEW, WY 26378 (832) 796-1610

### LIST OF DRAWINGS

TS1.1 . . . . . . COVER SHEET EVACUATION ROUTE/PREVAILING WINDS EP2.1 . . EVACUATION ROUTE/PREVAILING WNDS FP2.2 AS-BUILT OVERVIEW AS3.1 AS-BUILT SITE PLAN AS3.2 AS3.3 AS-BUILT SITE PLAN ACCESS ROAD PROFILE CRA4.1 CRA4.2 . PAD CROSS SECTIONS RECLAMATION OVERVIEW . . . . RECLAMATION PLAN . . . . RECLAMATION PLAN MRD6.1 . . . . . . DETAILS

MRD6.2 . . . . . . DETAILS MRD6.3 . . . . . DETAILS

TS1.1

Mak 1/7/22

### WEST VIRGINIA 81 CALL BEFORE

YOU DIG!

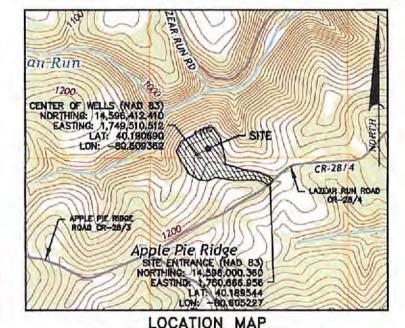
Dial 811 or 800.245.4848

AT LEAST 48 HOURS, BUT NOT MORE THAN 10 WORKING DAYS (EXCLUDING WEEKENGS AND HOUDAYS), PRIOR TO TO STARTHMO ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS WINGLED ON THISSE SMITHES SHALL CONTRACT MISS UTILITY OF WEST WINGHIA AT 511 OR 1-800-245-4648.

### **AS-BUILT SITE PLAN** FOR MIKE RYNIAWEC BRK PAD "A" **BUFFALO DISTRICT, BROOKE COUNTY, WV**



PROJECT -LOCATION PENNSYLVANIA MARYLAND VIRGINIA WVDEP OOG ACCEPTED AS-BUILT KENTUCKY 8 / 28 / 2017



COUNTY MAP

### LIST OF DRAWINGS

THIS ENGINEER'S CERTIFICATION COVERS UPDATING THE MIKE RYNIAWEC BRK PAD "A" TO CURRENT WEST VIRGINIA STANDARDS AND COVERS ONLY THE ADDITION OF THE CONTAINMENT BERM,

Southwestern Energy

**OPERATOR** 

SWN PRODUCTION CO., LLC P.O. BOX 1300 JANE LEW, WY 26378 (832) 795-1610

COVER SHEET EP2.1 . EVACUATION ROUTE/PREVAILING WINDS EP2.2 EVACUATION ROUTE/PREVAILING WINDS AS3.1 . AS-BUILT OVERVIEW AS3.2 . . . . . . AS-BUILT SITE PLAN AS3.3 . . . . . . AS-BUILT SITE PLAN CRA4.1 . . . . . . ACCESS ROAD PROFILE PAD CROSS SECTIONS CRA4.2 RECLAMATION OVERNEW RECLAMATION PLAN MRP5.2 RECLAMATION PLAN

MRD6.1 . . . . . DETAILS MRD6.2 . . . . . DETAILS MRD6,3 . . . . . . DETAILS

### SITE DATA

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### API NUMBERS

WELL CELLAR CELLAR CELLAR NUMBER NUMBER DIAMETER. DEPTH API 009-00109

TS1.1

01/21/2016 REV. 05/31/2017 AS SHOWN BY SCALE DATE

V PAD

BRK RYNIAWEC

COVER SHEET

MKE

