

west virginia department of environmental protection

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

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

Monday, April 22, 2024 WELL WORK PERMIT Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359

SPRING, TX 773914954

Re:

Permit approval for Worthley BRK 5H

47-009-00340-00-00

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.

ames A. Martin

Operator's Well Number:

Worthley BRK 5H

Farm Name:

Kimberly Carman Worthley

U.S. WELL NUMBER:

47-009-00340-00-00

Horizontal 6A New Drill

Date Issued: 4/22/2024

API Number: 4700900340

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.
- 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. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Also, 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief
 or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
- 11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

WW-6B (04/15)

API NO. 47-009 OPERATOR WELL NO. Worthley BRK 5H
Well Pad Name: Worthley BRK

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

1) Well Operator: SWN Produ	uction Co., LLC	494512924	009- Brooke 3-B	suffalo 247- Bethany
		Operator ID	County Dis	strict Quadrangle
2) Operator's Well Number: We	orthley BRK 5H	Well Pad	Name: Worthley I	BRK
3) Farm Name/Surface Owner:	Kimberly Carman W	orthley Public Roa	d Access: Bealls R	lidge Road
4) Elevation, current ground:	1157' El	evation, proposed	post-construction:	1157'
5) Well Type (a) Gas X Other	Oil	Unde	erground Storage	
	llow X	Deep		
Hor 6) Existing Pad: Yes or No Yes	rizontal X			
7) Proposed Target Formation(s Target Formation- Marcellus, Up-Dip well t				
8) Proposed Total Vertical Dept	h: 6035'			
9) Formation at Total Vertical D	epth: Marcellus	3		
10) Proposed Total Measured D	epth: 18807'			
11) Proposed Horizontal Leg Le	ength: 12,170.0	4'		
12) Approximate Fresh Water S	trata Depths:	520'		
13) Method to Determine Fresh	Water Depths: _l	_og Analysis & Ne	earby Water Well	
14) Approximate Saltwater Dep	ths: 636' Salinity	Profile		
15) Approximate Coal Seam De	pths: 329'			
16) Approximate Depth to Possi	ble Void (coal m	ine, karst, other):	Possible Void 329'	
17) Does Proposed well location directly overlying or adjacent to		Yes	No ×	
(a) If Yes, provide Mine Info:	Name:			RECEIVED of Oil and Gas
	Depth:		MΔ	R 2 0 2024
	Seam:		.11175	W 0 CUCA
	Owner:		WV [Department of

Spande 2024

API NO. 47-709 0 9 0 0 340

OPERATOR WELL NO. Worthley BRK 5H

Well Pad Name: Worthley BRK

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	<u>Grade</u>	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#	136'	136'	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	570'	570'	653 sx/CT S
Coal	See	Surface	Casing			-	
Intermediate	9 5/8"	New	J-55	36#	1700'	1700'	665 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	18807'	18807'	Tail 3468sx/ 100' Inside Intermediate
Tubing							
Liners							

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"	0.330	1730	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	1.19/10-15% Excess
Tubing							
Liners							

PACKERS

Kind:	
Sizes:	
Depths Set:	Office of Oil and Gas
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WV Department of Environmental Protection

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WW-6B (10/14)

47.00 0 9 0 0 340

OPERATOR WELL NO. Worthley BRK 5H
Well Pad Name: Worthley BRK

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

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

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

Well will be perforated within the target formation and stimulated with a slurry of water, sand, and chemical additives at a high rate. This will be performed in stages with the plug and perf method along the wellbore until the entire lateral has been stimulated within the target formation. All stage plugs are then drilled out and the well is flowed back to surface. In some instances, additional toe prep may be performed by pumping additional water in the toe of the well prior to perforating and pumping Stage 1 to ensure that the toe guns/toe sleeves are fully open prior to pumping stage 1. The well is produced through surface facilities consisting of high pressure production units, horizontal separation units, water and oil storage tanks. Max press and anticipated max rate- 12,500 psi @ 100 barrels a minute.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 9.76
- 22) Area to be disturbed for well pad only, less access road (acres): 6.86
- 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.

RECEIVED
Office of Other Class**

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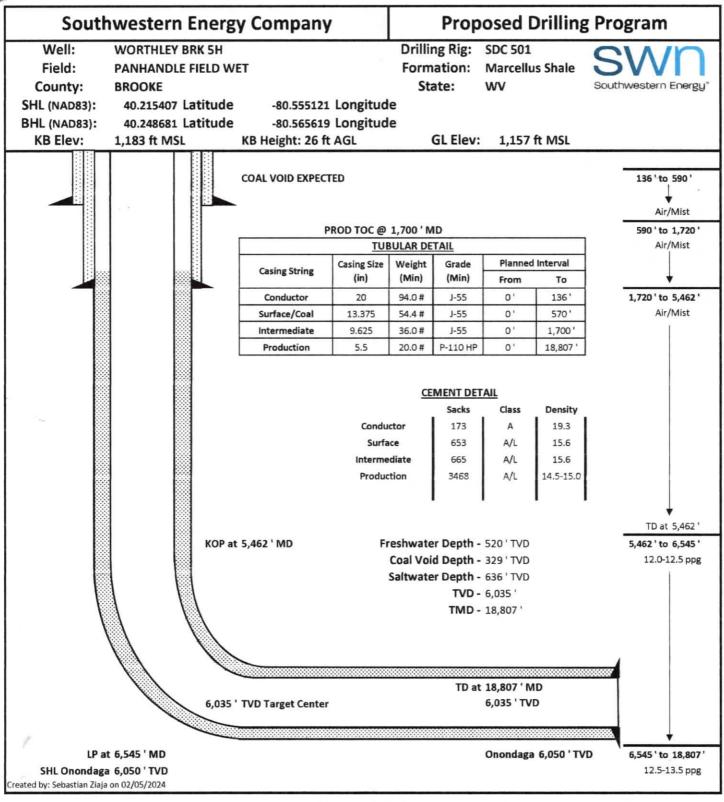
*Note: Attach additional sheets as needed.

			CEMENT	ADDITIVES		
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE (FRESHWATER)	\sim	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
up to 3%	S001	A-7P	0110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION	\searrow	INTEGRA SEAL	0600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
up to 3%	S001	A-7P	CJIIO	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
	D020	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	0047	FP 28L	$>\!\!<$	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
INTERMEDIATE	$>\!\!<$	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
INTERMEDIATE	CemNet	\times	\times	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
	\mathbb{X}	$\overline{}$	CJIII	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
ľ	$>\!\!<$	55-IIW	0880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	DO47	FP 28L	$>\!\!<$	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	$>\!\!<$	$>\!<$	OX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
	> <	> <	CJ540	HP FLUID LOSS ADDITIVE	ALIPHATICAMIDE POLYMER	PROPRIETARY
	0255	>>	> <	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETARY
	$\overline{}$		CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
PRODUCTION	>>	FL-66	0501	LOW TEMP FLUID	POWDERED POLYSACCHARIDE	PROPRIETARY
	\sim	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	\times	VISCOSI FIER/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
	D065	\times	\times	DISPERSANT	SODIUM POLYNAPHTHALENE SULFONATE	8068-51-6
	D800			CEMENT RETARDER (Mid-Temperature)	SODIUM	8061-51-6

Office of Oil and Gas

MAR 20 2024

WV Department of Environmental Protection 04/26/2024



STRADER GOLF

Office of Oil and Gas

MAR 20 2024

WV Department of Environmental Protection

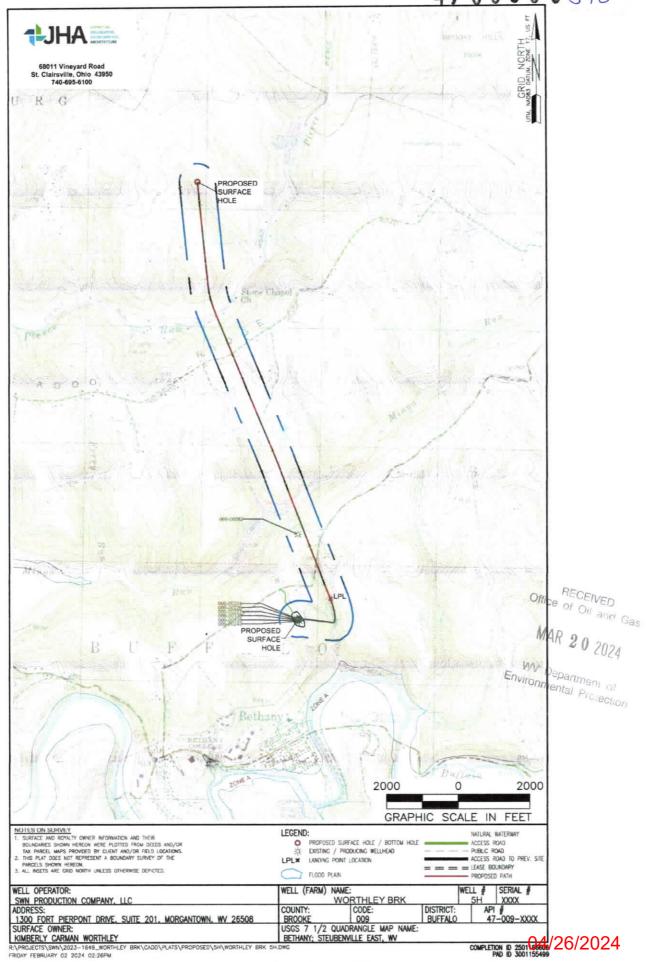
API	Operator	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones Not Perforated
47-009-00224	SWN PRODUCTION COMPANY, LLC	ACTIVE	40.215424	-80.555251	6015'	MARCELLUS	
17-009-00135	SWN PRODUCTION COMPANY, LLC	ACTIVE	40.215282	-80.555004		MARCELLUS	
17-009-00133	SWN PRODUCTION COMPANY, LLC	ACTIVE	40.215311	-80.555036		MARCELLUS	
17-009-00249	SWN PRODUCTION COMPANY, LLC	ACTIVE	40.215252	-80.554972	6241'	MARCELLUS	
17-009-00226	SWN PRODUCTION COMPANY, LLC	ACTIVE	40.215394	-80.555219	6013'	MARCELLUS	
17-009-00227	SWN PRODUCTION COMPANY, LLC	ACTIVE	40.215335	-80.555155	6164'	MARCELLUS	
17-009-00082	MARTIN TWIST ENERGY CO., LLC	NEVER DRILLED	50.512773	-80.535787	12000'	GRANITE-WASH	

Office of OH and Gas

MAR 20 2024

WV Department of Environmental Protection

4700900 340



WW-9 (4/16)

API Number	47 -	009	
One	rator's	Well N	O. Worthley BRK 5H

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	1
Watershed (HUC 10) Upper Ohio South Quadrangle Bethany	
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 V	
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	8
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	
Voc See Attachment 2A	
Will closed loop system be used? If so, describe: Yes- See Attachment 3A	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air drill to KOP, fluid drill with SOBM from K	(OP to TD
-If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base	
Additives to be used in drilling medium? Attachment 3B	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill	
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)	
-Landfill or offsite name/permit number? Meadowfill SWF-1032, Short Creek SWF-1034, Carbon Limestone MSWL018781, Wetzel Count	ty 1021
Apex Sanitary Landtill Ub-U8438, Brooke Co SVVF-TUT3, FMS 353100 Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also di where it was properly disposed.	
where it was property disposed.	
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERIOD on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understate provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submit application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsibilities for submitting false information, including the possibility of fine or imprisonment. Company Official Signature RECEIVED Office of Oil and Gas	and that the rapplicable and this onsible for significant
Company Official (Typed Name) Brittany Woody MAR 2 0 2024	
Company Official Title Staff Regulatory Specialist	
Environmental Protection	_
Subscribed and sworm before me this 8 day of Feb , 2024)
Clerateth Blankonsle Notary Public	Official Seal
My commission expires 610019009	Public, State Of West Virginia Elizabeth Blankenship 941 Simpson Run Road 5 / 26 / 26 / 26 / 26 / 26 / 26 / 26 / 2

Operator's Well No. Worthley BRK 5H

Proposed Revegetation Treatment: Acres Disturbed 9.76	Prevegetation pl	Н
Lime _as determined by pH test min.2 Tons/acre or to correct to pH _6	86	
Fertilizer type 10-20-20		
Fertilizer amount 600/500 lbs/ac	re	
Mulch_ Hay/StrawTons/acre		
Seed M	ixtures	
Temporary	Perma	nnent
Seed Type lbs/acre Attachment 3C	Seed Type	lbs/acre
Maps(s) of road, location, pit and proposed area for land application provided). If water from the pit will be land applied, include dimensionage, of the land application area.	n (unless engineered plans inclu	ding this info have been d dimensions (L x W), and
Maps(s) of road, location, pit and proposed area for land application provided). If water from the pit will be land applied, include dimer acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	n (unless engineered plans inclusions (L x W x D) of the pit, and	ding this info have been d dimensions (L x W), and
Maps(s) of road, location, pit and proposed area for land application provided). If water from the pit will be land applied, include dimer acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	n (unless engineered plans inclu sions (L x W x D) of the pit, and	d dimensions (L x W), and
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Attach: Maps(s) of road, location, pit and proposed area for land application provided). If water from the pit will be land applied, include dimensuraceage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: STRANCE Governments:	n (unless engineered plans inclu sions (L x W x D) of the pit, and	d dimensions (L x W), and

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 a Shale Gas Separator, 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 highly weighted 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 haul off to an approved landfill site. (See attached schematic of a generic closed loop system layout)

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

AIR DRILLING INTERVALS

During air drilling operations, flow from the rig will pass down the flowline to the Shale Gas Separator 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 Common Gas

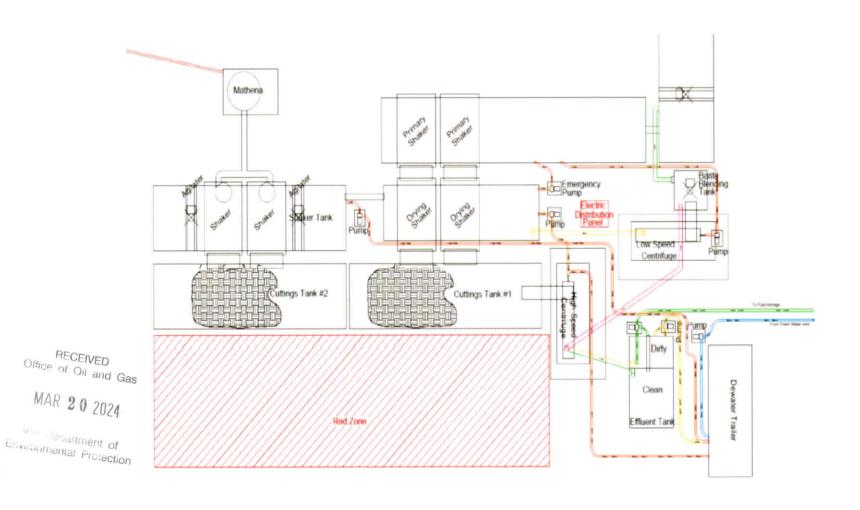
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Drilling Mediums

Surface/Coal (if present)/Freshwater Intervals

Air

Freshwater (if needed based on conditions)

Intermediate/Coal (if present)

Air

Freshwater (if needed based on conditions)

Brine (if needed, base fluid for mud systems)

Production Hole:

Air

Synthetic Oil (Base Fluid for mud system)

Barite

Calcium Chloride

Lime

Organophilic Bentonite

Primary and Secondary Emulsfiers

Gilsonite

Calcium Carbonate

Friction Reducers

Office of Oil and Gas

MAR 20 2024

Environmental The season



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)

N	ON-	ORG	MAG	IC	DROI	PERTI	FC
		OIL	,,,,,,,,			LIVI	

HON ONGANIC THOTENTES		
Seed Mixture: ROW Mix	SWN	l 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	C	Apply @ 200lbs per acre Oct. 15th- April 15th PLUS Oct 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 Orga	nic 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

WETLANDS (de	lineated as jurisdicti	onal wetla	ands)	
Seed Mixture: Wetland Mix SWN Supplied				
VA Wild Ryegrass		20%		
Annual Ryegrass		20%		
Fowl Bluegrass		20%		
Cosmos 'Sensation'		10%		
Redtop	Office of CEIVED	5%		
Golden Tickseed	Office of Oil and o	as 5%		
Maryland Senna	MAR 20 2024	5%		
Showy Tickseed		5%		5
Fox Sedge	Environmental p.	2.5%		7
Soft Rush	Environmental Protection	2.5%		0
Woolgrass	o tection	2.5%		0
Swamp Verbena		2.5%		9
Apply (@ 25lbs per acre		Apply @ 50lbs per acre	0
April :	16th- Oct. 14th		Oct. 15th- April 15th	0
	NO FERTILIZER OR LIME	INSIDE WETL	AND LIMITS	
				CU

MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN 47 0 0 9 0 0 340



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

API NO. 47-XXX-XXXXX WELL NAME: Worthley BRK 5H Bethany QUAD Buffalo DISTRICT BROOKE COUNTY, WEST VIRGINIA

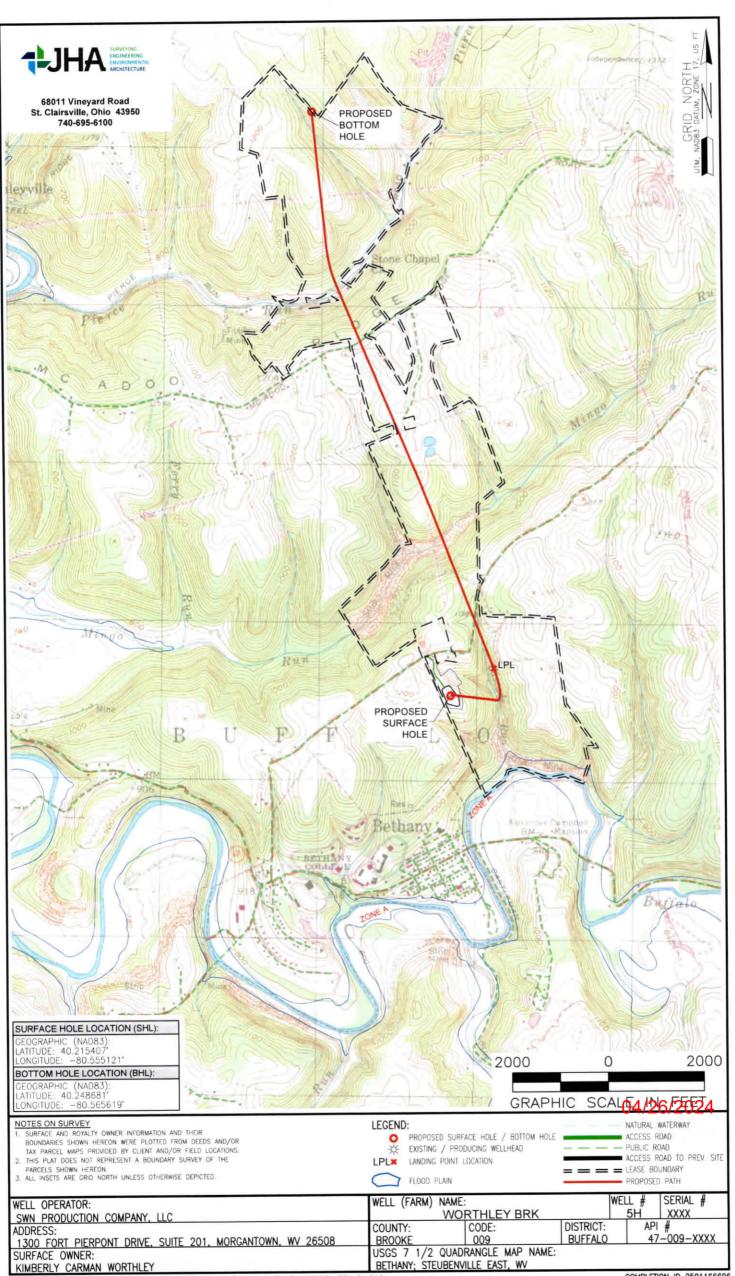
Submitted by:		
Name: Brittany Woody Suttany Woody	Date: <u>1/4/2024</u>	
Title: Staff Regulatory Specialist	SWN Production Co., LLC	>
Approved by:		
Name: STRADER GOVER	Date: 2/22/2024	
Title: O'INGASTINGECTOR		
Approved by:		
Name:	Date:	
Title:		RECEIVED Office of Oil and Gas
SWN PRODUCTION COMPANY, LLC -	- CONFIDENTIAL	MAR 20 2024
		Wiv Department of Environmental Protection



Structure Proximity Map

Well Pad:
Worthley BRK

Map by: mccaulma | Date 12/15/2023 | Mad 83 | UTM 2 one 17 | Swot | 1,500 ft | 1,50



HOLE

SURFACE

30

80

1 Al TRACT 2 3 4 5 6 7 8 9 10 11 12 13 14 TRACT A B C D E F G H I J K L M N O P Q R S T U	SURFACE OWNER (S) / ROYALTY OWNER (R) WORTHLEY KIMBERLY CARMAN (S) OLONIAL CORP, A NEVADA CORP, & KIMBERLY J. CARMAN KA KIMBERLY J. WORTHLEY, A MARRIED WOMAN DEALING IN HER SASP(R) SURFACE OWNER WORTHLY KIMBERLY CARMEN; JEFFREY W HENSLER (LC) STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS HENSLER JEFFREY W HENSLER JEFFREY W SPORTSMANS & FARMERS ASSN HUKILL TAMARA J KOSCEVIC MICHAEL THOMAS & SHERYL ANN (SURV) STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS LANCASTER DELMAS O & ELFRIEDE YANO MICHAEL JAMES & JENNIFER LYNN (SURV) HENNIS FLOYD; LAROCHE LEONA; DISHER TANA STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC ADJOINING OWNERS TABLE SURFACE OWNER BETHANY COLLEGE FEDAK MARK A & GEORGIA M (SURV) SPORTSMAN & FARMERS ASSN HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J	TAX PARCEL 3-B38-27 TAX PARCEL 3-B38-25 BETHANY PIKE 3-B38-27.1 3-B38-28 3-B38-17 3-B33-97.2 3-B33-97.2 3-B33-97.3 MCADOO RIDG ROAD 3-B33-95 3-B33-43 3-B33-38 PIERCE RUN ROAD 3-B33-23 TAX PARCEL 3-B38-31 3-B38-14 3-B38-15 3-B33-85.1 3-B33-85.1 3-B33-85.1
1 Al TRACT 2 3 4 5 6 7 8 9 10 11 12 13 14 TRACT A B C D E F G H I J K L M N O P Q R S T U V N W X Y Z AAA AB AC AD AE	OLONIAL CORP, A NEVADA CORP, & KIMBERLY J. CARMAN KA KIMBERLY J. WORTHLEY, A MARRIED WOMAN DEALING IN HER SASP(R) SURFACE OWNER WORTHLY KIMBERLY CARMEN; JEFFREY W HENSLER (LC) STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS HENSLER JEFFREY W SPORTSMANS FARMERS ASSN SPORTSMANS FARMERS ASSN HUKILL TAMARA J KOSCEVIC MICHAEL THOMAS & SHERYL ANN (SURV) STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS LANCASTER DELMAS O & ELFRIEDE YANO MICHAEL JAMES & JENNIFER LYNN (SURV) HENNIS FLOYD; LAROCHE LEONA; DISHER TANA STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC ADJOINING OWNERS TABLE SURFACE OWNER BETHANY COLLEGE FEDAK MARK A & GEORGIA M (SURV) SPORTSMAN & FARMERS ASSN HUKILL TAMARA J	TAX PARCEL 3-B38-25 BETHANY PIKE 3-B38-27.1 3-B38-28 3-B38-17 3-B33-97.2 3-B33-97.2 3-B33-97.3 MCADOO RIDG ROAD 3-B33-95 3-B33-43 3-B33-38 PIERCE RUN ROAD 3-B33-23 TAX PARCEL 3-B38-31 3-B38-14 3-B38-15 3-B33-85.1
2 3 4 5 6 7 8 8 9 10 11 11 12 13 14 14 17 17 14 15 15 16 17 17 17 17 17 17 17 17 17 17 17 17 17	WORTHLY KIMBERLY CARMEN; JEFFREY W HENSLER (LC) STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS HENSLER JEFFREY W SPORTSMANS FARMERS ASSN SPORTSMANS & FARMERS ASSN HUKILL TAMARA J KOSCEVIC MICHAEL THOMAS & SHERYL ANN (SURV) STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS LANCASTER DELMAS O & ELFRIEDE YANO MICHAEL JAMES & JENNIFER LYNN (SURV) HENNIS FLOYD; LAROCHE LEONA; DISHER TANA STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC ADJOINING OWNERS TABLE SURFACE OWNER BETHANY COLLEGE FEDAK MARK A & GEORGIA M (SURV) SPORTSMAN & FARMERS ASSN HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J	3-838-25 BETHANY PIKE 3-838-27.1 3-838-27.1 3-838-28 3-838-17 3-833-97.2 3-833-97.3 MCADOO RIDG ROAD 3-833-95 3-833-43 3-833-38 PIERCE RUN ROAD 3-833-29 3-833-23 TAX PARCEL 3-838-31 3-838-14 3-838-15 3-833-85.1
3 4 5 6 7 8 8 9 10 11 1 12 13 14 14 17 17 14 15 17 17 17 17 17 17 17 17 17 17 17 17 17	STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS HENSLER JEFFREY W SPORTSMANS FARMERS ASSN SPORTSMANS & FARMERS ASSN HUKILL TAMARA J KOSCEVIC MICHAEL THOMAS & SHERYL ANN (SURV) STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS LANCASTER DELMAS O & ELFRIEDE YANO MICHAEL JAMES & JENNIFER LYNN (SURV) HENNIS FLOYD; LAROCHE LEONA; DISHER TANA STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC ADJOINING OWNERS TABLE SURFACE OWNER BETHANY COLLEGE FEDAK MARK A & GEORGIA M (SURV) SPORTSMAN & FARMERS ASSN HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J	BETHANY PIKE 3-B38-27.1 3-B38-28 3-B38-17 3-B33-100 3-B33-97.2 3-B33-97.3 MCADOO RIDG ROAD 3-B33-43 3-B33-43 3-B33-38 PIERCE RUN ROAD 3-B33-29 3-B33-23 TAX PARCEL 3-B38-31 3-B38-14 3-B38-15 3-B33-85.1
4 5 6 7 8 8 9 10 11 1 12 13 14 14 1 14 1 15 14 1 1 1 1 1 1 1 1 1 1	HENSLER JEFFREY W HENSLER JEFFREY W SPORTSMANS FARMERS ASSN SPORTSMANS & FARMERS ASSN HUKILL TAMARA J KOSCEVIC MICHAEL THOMAS & SHERYL ANN (SURV) STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS LANCASTER DELMAS O & ELFRIEDE YANO MICHAEL JAMES & JENNIFER LYNN (SURV) HENNIS FLOYD; LAROCHE LEONA; DISHER TANA STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC ADJOINING OWNERS TABLE SURFACE OWNER BETHANY COLLEGE FEDAK MARK A & GEORGIA M (SURV) SPORTSMAN & FARMERS ASSN HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J	3-B38-27.1 3-B38-27.1 3-B38-28 3-B38-17 3-B33-100 3-B33-97.2 3-B33-97.3 MCADOO RIDG ROAD 3-B33-95 3-B33-43 3-B33-38 PIERCE RUN ROAD 3-B33-29 3-B33-23 TAX PARCEL 3-B38-31 3-B38-14 3-B38-15 3-B33-85.1
4 5 6 7 8 8 9 10 11 1 12 13 14 14 1 14 1 15 14 1 1 1 1 1 1 1 1 1 1	HENSLER JEFFREY W SPORTSMANS FARMERS ASSN SPORTSMANS & FARMERS ASSN HUKILL TAMARA J KOSCEVIC MICHAEL THOMAS & SHERYL ANN (SURV) STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS LANCASTER DELMAS O & ELFRIEDE YANO MICHAEL JAMES & JENNIFER LYNN (SURV) HENNIS FLOYD; LAROCHE LEONA; DISHER TANA STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC ADJOINING OWNERS TABLE SURFACE OWNER BETHANY COLLEGE FEDAK MARK A & GEORGIA M (SURV) SPORTSMAN & FARMERS ASSN HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J	3-838-28 3-838-17 3-833-100 3-833-97.2 3-833-97.3 MCADOO RIDG ROAD 3-833-95 3-833-38 PIERCE RUN ROAD 3-833-29 3-833-23 TAX PARCEL 3-838-31 3-838-14 3-838-15 3-833-85.1
5 6 7 8 9 10 11 12 13 14 14 17 14 15 15 16 16 17 17 17 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	SPORTSMANS & FARMERS ASSN HUKILL TAMARA J KOSCEVIC MICHAEL THOMAS & SHERYL ANN (SURV) STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS LANCASTER DELMAS O & ELFRIEDE YANO MICHAEL JAMES & JENNIFER LYNN (SURV) HENNIS FLOYD; LAROCHE LEONA; DISHER TANA STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC ADJOINING OWNERS TABLE SURFACE OWNER BETHANY COLLEGE FEDAK MARK A & GEORGIA M (SURV) SPORTSMAN & FARMERS ASSN HUKILL DALE C JR & DELVIRA HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J	3-838-17 3-833-97.2 3-833-97.3 MCADOO RIDG ROAD 3-833-95 3-833-43 3-833-38 PIERCE RUN ROAD 3-833-29 3-833-23 TAX PARCEL 3-838-31 3-838-14 3-838-15 3-833-85.1
6 7 8 9 10 11 12 13 14 14 17 17 14 15 15 16 16 16 17 17 17 17 17 17 17 17 17 17 17 17 17	SPORTSMANS & FARMERS ASSN HUKILL TAMARA J KOSCEVIC MICHAEL THOMAS & SHERYL ANN (SURV) STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS LANCASTER DELMAS O & ELFRIEDE YANO MICHAEL JAMES & JENNIFER LYNN (SURV) HENNIS FLOYD; LAROCHE LEONA; DISHER TANA STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC ADJOINING OWNERS TABLE SURFACE OWNER BETHANY COLLEGE FEDAK MARK A & GEORGIA M (SURV) SPORTSMAN & FARMERS ASSN HUKILL DALE C JR & DELVIRA HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J	3-B33-100 3-B33-97.2 3-B33-97.3 MCADOO RIDG ROAD 3-B33-95 3-B33-43 3-B33-38 PIERCE RUN ROAD 3-B33-29 3-B33-23 TAX PARCEL 3-B38-31 3-B38-14 3-B38-15 3-B33-85.1
7 8 9 10 11 12 13 14 14 17 17 14 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	HUKILL TAMARA J KOSCEVIC MICHAEL THOMAS & SHERYL ANN (SURV) STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS LANCASTER DELMAS O & ELFRIEDE YANO MICHAEL JAMES & JENNIFER LYNN (SURV) HENNIS FLOYD; LAROCHE LEONA; DISHER TANA STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC ADJOINING OWNERS TABLE SURFACE OWNER BETHANY COLLEGE FEDAK MARK A & GEORGIA M (SURV) SPORTSMAN & FARMERS ASSN HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J	3-B33-97.2 3-B33-97.3 MCADOO RIDG ROAD 3-B33-95 3-B33-43 3-B33-43 3-B33-40 3-B33-29 3-B33-23 TAX PARCEL 3-B38-31 3-B38-14 3-B38-15 3-B33-85.1
8 9 10 11 12 13 14 14 15 17 14 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	KOSCEVIC MICHAEL THOMAS & SHERYL ANN (SURV) STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS LANCASTER DELMAS O & ELFRIEDE YANO MICHAEL JAMES & JENNIFER LYNN (SURV) HENNIS FLOYD; LAROCHE LEONA; DISHER TANA STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC ADJOINING OWNERS TABLE SURFACE OWNER BETHANY COLLEGE FEDAK MARK A & GEORGIA M (SURV) SPORTSMAN & FARMERS ASSN HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J	3-B33-97.3 MCADOO RIDG ROAD 3-B33-95 3-B33-43 3-B33-38 PIERCE RUN ROAD 3-B33-40 3-B33-23 TAX PARCEL 3-B38-31 3-B38-14 3-B38-15 3-B33-85.1
9 10 11 12 13 14 14 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS LANCASTER DELMAS O & ELFRIEDE YANO MICHAEL JAMES & JENNIFER LYNN (SURV) HENNIS FLOYD; LAROCHE LEONA; DISHER TANA STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC ADJOINING OWNERS TABLE SURFACE OWNER BETHANY COLLEGE FEDAK MARK A & GEORGIA M (SURV) SPORTSMAN & FARMERS ASSN HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J	MCADOO RIDG ROAD 3-B33-95 3-B33-43 3-B33-38 PIERCE RUN ROAD 3-B33-29 3-B33-23 TAX PARCEL 3-B38-31 3-B38-14 3-B38-15 3-B33-85.1
10	LANCASTER DELMAS O & ELFRIEDE YANO MICHAEL JAMES & JENNIFER LYNN (SURV) HENNIS FLOYD; LAROCHE LEONA; DISHER TANA STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC ADJOINING OWNERS TABLE SURFACE OWNER BETHANY COLLEGE FEDAK MARK A & GEORGIA M (SURV) SPORTSMAN & FARMERS ASSN HUKILL DALE C JR & DELVIRA HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J	ROAD 3-B33-95 3-B33-43 3-B33-38 PIERCE RUN ROAD 3-B33-40 3-B33-29 3-B33-23 TAX PARCEL 3-B38-31 3-B38-14 3-B38-15 3-B33-85.1
10	YANO MICHAEL JAMES & JENNIFER LYNN (SURV) HENNIS FLOYD; LAROCHE LEONA; DISHER TANA STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC ADJOINING OWNERS TABLE SURFACE OWNER BETHANY COLLEGE FEDAK MARK A & GEORGIA M (SURV) SPORTSMAN & FARMERS ASSN HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J	3-B33-43 3-B33-38 PIERCE RUN ROAD 3-B33-40 3-B33-29 3-B33-23 TAX PARCEL 3-B38-31 3-B38-14 3-B38-15 3-B33-85.1 3-B33-85.1
11	HENNIS FLOYD; LAROCHE LEONA; DISHER TANA STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC ADJOINING OWNERS TABLE SURFACE OWNER BETHANY COLLEGE FEDAK MARK A & GEORGIA M (SURV) SPORTSMAN & FARMERS ASSN HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J	3-B33-38 PIERCE RUN ROAD 3-B33-40 3-B33-29 3-B33-23 TAX PARCEL 3-B38-31 3-B38-14 3-B38-15 3-B33-85 3-B33-116 3-B33-85.1
12 13 14 IRACT A B C D E F G H I J K L M N O P Q R S T U V N W X Y Z AA AB AC AD AE	STATE OF WEST VIRGINIA, DIVISION OF HIGHWAYS WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC ADJOINING OWNERS TABLE SURFACE OWNER BETHANY COLLEGE FEDAK MARK A & GEORGIA M (SURV) SPORTSMAN & FARMERS ASSN HUKILL DALE C JR & DELVIRA HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J	PIERCE RUN ROAD 3-833-40 3-833-29 3-833-23 TAX PARCEL 3-838-14 3-838-15 3-833-85 3-833-85.1
13 14 FRACT A B C D E F G H I J K L M N O P Q R S T U V W X Y Z AA AB AC AD AE	WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC ADJOINING OWNERS TABLE SURFACE OWNER BETHANY COLLEGE FEDAK MARK A & GEORGIA M (SURV) SPORTSMAN & FARMERS ASSN HUKILL DALE C JR & DELVIRA HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J	ROAD 3-833-40 3-833-29 3-833-23 TAX PARCEL 3-838-31 3-838-14 3-838-15 3-833-85 3-833-116 3-833-85.1
13 14 TRACT A B C D E F G H I J K L M N O P Q R S T U V N W X Y Z AA AB AC AD AE	WELLS GIST LAND CO., LLC WELLS GIST LAND CO., LLC ADJOINING OWNERS TABLE SURFACE OWNER BETHANY COLLEGE FEDAK MARK A & GEORGIA M (SURV) SPORTSMAN & FARMERS ASSN HUKILL DALE C JR & DELVIRA HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J	3-833-40 3-833-29 3-833-23 TAX PARCEL 3-838-31 3-838-14 3-838-15 3-833-85 3-833-116 3-833-115 3-833-85.1
TRACT A B C D E F G H I J K L M N O P Q R S T U V N W X Y Z AAA AB AC AD AE	WELLS GIST LAND CO., LLC ADJOINING OWNERS TABLE SURFACE OWNER BETHANY COLLEGE FEDAK MARK A & GEORGIA M (SURV) SPORTSMAN & FARMERS ASSN HUKILL DALE C JR & DELVIRA HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J	3-833-23 TAX PARCEL 3-838-31 3-838-14 3-838-15 3-833-85 3-833-116 3-833-115 3-833-85.1
TRACT A B C D E F G H I J K L M N O P Q R S T U V N W X Y Z AAA AB AC AD AE	ADJOINING OWNERS TABLE SURFACE OWNER BETHANY COLLEGE FEDAK MARK A & GEORGIA M (SURV) SPORTSMAN & FARMERS ASSN HUKILL DALE C JR & DELVIRA HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J	TAX PARCEL 3-838-31 3-838-14 3-838-15 3-833-85 3-833-116 3-833-115 3-833-85.1
A B C D E F G H I J K L M N O P Q R S T U V N W X Y Z AAA AB AC AD AE	SURFACE OWNER BETHANY COLLEGE FEDAK MARK A & GEORGIA M (SURV) SPORTSMAN & FARMERS ASSN HUKILL DALE C JR & DELVIRA HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J	3-838-31 3-838-14 3-838-15 3-833-85 3-833-116 3-833-115 3-833-85.1
A B C D E F G H I J K L M N O P Q R S T U V N W X Y Z AAA AB AC AD AE	BETHANY COLLEGE FEDAK MARK A & GEORGIA M (SURV) SPORTSMAN & FARMERS ASSN HUKILL DALE C JR & DELVIRA HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J	3-838-31 3-838-14 3-838-15 3-833-85 3-833-116 3-833-115 3-833-85.1
B C D E F G H I J K L M N O P Q R S T U V N W X Y Z AA AB AC AD AE	FEDAK MARK A & GEORGIA M (SURV) SPORTSMAN & FARMERS ASSN HUKILL DALE C JR & DELVIRA HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J	3-838-14 3-838-15 3-833-85 3-833-116 3-833-115 3-833-85.1
E F G H I J K L M N O P Q R S T U V W X Y Z AA AB AC AD AE	SPORTSMAN & FARMERS ASSN HUKILL DALE C JR & DELVIRA HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J	3-838-15 3-833-85 3-833-116 3-833-115 3-833-85.1
E F G H I J K L M N O P Q R S T U V N W X Y Z AA AB AC AD AE	HUKILL DALE C JR & DELVIRA HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J	3-833-85 3-833-116 3-833-115 3-833-85.1
E F G H I J K L M N O P Q R S T U V N W X Y Z AA AB AC AD AE	HUKILL TAMARA J HUKILL TAMARA J HUKILL TAMARA J	3-833-116 3-833-115 3-833-85.1
F G H I J K L M N O P Q R S T U V N W X Y Z AA AB AC AD AE	HUKILL TAMARA J HUKILL TAMARA J	3-833-115 3-833-85.1
G H I J K L M N O P Q R S T U V N W X Y Z AA AB AC AD AE	HUKILL TAMARA J	3-833-85.1
H I J K L M N O P Q R S T U V N W X Y Z AA AB AC AD AE		The second second
I J K L M N O P Q R S T U V N W X Y Z AA AB AC AD AE		3-833-83
J K L M N O P Q R S T U V N W X Y Z AA AB AC AD AE	FRANCIS JOHN R	3-B33-82.1
K L M N O P Q R S T U V N W X Y Z AA AB AC AD AE	FRANCIS NADINE NKA; NADINE RICHARDS	3-833-82.1
L M N O P Q R S T U V N W X Y Z AA AB AC AD AE	FRANCIS NADINE	3-833-82
M N O P Q R S T U V N W X Y Z AA AB AC AD AE	ADAMS RICHARD L & CINDY L	3-833-80
O P Q R S T U V N W X Y Z AA AB AC AD AE	CHILCOTE DIANA DARLENE	3-833-79
P Q R S T U V N W X Y Z AA AB AC AD AE	BERTELLI CARRIE A	3-833-77.4
Q R S T U V N W X Y Z AA AB AC AD AE	YANO MICHAEL J & JENNIFER	3-833-78
R S T U V N W X Y Z AA AB AC AD AE	KOPKO KEVIN P & GERRI L (SURV)	3-833-78.1
S T U V N W X Y Z AA AB AC AD AE	KOPKO KEVIN P & GERRI L (SURV)	3-833-43.1
T U V N W X Y Z AA AB AC AD AE	PELAEZ DEBRA KAY	3-833-71
V N W X Y Z AA AB AC AD AE	PELUCHETTE FAMILY TRUST	3-833-53
V N W X Y Z AA AB AC AD AE	PELUCHETTE FAMILY TRUST	3-B33-52
W X Y Z AA AB AC AD AE	DEGARMO CARL & SOPHIA SURV	3-B33-49
X Y Z AA AB AC AD AE	ACLAUGHLIN LAWRENCE II (L EST-GROVER LEE HAUGHT)	3-833-48
Y Z AA AB AC AD AE	WELLS GIST LAND CO. LLC	3-833-47
Z AA AB AC AD AE	WELLS GIST LAND CO., LLC	3-833-46
AA AB AC AD AE	CROSS NICKOLAS J & AMY L (SURV)	3-833-45
AB AC AD	SNODGRASS STEVEN	3-833-44
AC AD AE	WELLS GIST LAND CO., LLC STARVAGGI IND	3-B33-35 3-B33-41
AD AE	DEGARMO PATRICK	3-B33-41 3-B33-20
AE	SULLIVAN DONNA M	3-B33-20 3-B33-22
	WELLS GIST LAND CO., LLC	3-833-24
	GRAHAM PATRICIA	3-828-43
AG	STARVAGGI IND	3-833-25
АН	STARVAGGI INDUSTRIES INC	3-833-26
AI		3-833-27
AJ	MERWICK STELLA	3-833-28
AK	MERWICK STELLA EATON THEODORE EDWIN	3-833-31
AL	- Company Company	3-833-32
AM	EATON THEODORE EDWIN	3-833-33.1
AN	EATON THEODORE EDWIN STEWART JAMES H & PAMELA JO	3-833-33
AO	EATON THEODORE EDWIN STEWART JAMES H & PAMELA JO CUNNINGHAM SHARON A	3-B33-30
AP	EATON THEODORE EDWIN STEWART JAMES H & PAMELA JO CUNNINGHAM SHARON A CUNNINGHAM SHARON A KEARNS SHAWN CUNNINGHAM SHARON	
AQ AR	EATON THEODORE EDWIN STEWART JAMES H & PAMELA JO CUNNINGHAM SHARON A CUNNINGHAM SHARON A KEARNS SHAWN	3-B33-34 3-B33-35

TRACT	SURFACE OWNER	TAX PARCE
AS	SMITH JON T & MARLENA L	3-833-37
AT	CULBERTSON MELVIN & DORIS	3-B33-96
AU	EDGELL SCOTT L	3-833-99
AV	LONG BRIAN T & JACINDA D	3-B33-98
AW	LONG BRIAN T & JACINDA D (SURV)	3-B33-97.4
AX	TANNER GEORGE A; SWEET BARBARA B (SURV)	3-B33-97.1
AY	CORBIN CHARLES R JR (TOD)	3-833-102
AZ	SPORTSMANS FARMERS ASSN	3-B33-101
ВА	OWEN MARK WEAVER & KREUTZ; VIRGINIA BEALL	3-838-19
88	STEWART KEVIN SCOTT & LISA KAY	3-838-20
ВС	OWEN MARK WEAVER & KREUTZ; VIRGINIA BEALL	3-B38-19
BD	ELSON LANCE M	3-B38-21
BE	VANCAMP NOLTE&GLADYS AS TRUS; OF 11/4/02 VANCAMP FAMILY TR	3-838-23
BF	OWEN MARK W 1/2 INT: KRUETZ VIRGINIA BEALL 1/2 INT:	3-838-24
BG	BETHANY COLLEGE	3-B43-66
ВН	BETHANY COLLEGE	2-B43C-127
ВІ	HENNIS FLOYD; LAROCHE LEONA; DISHER TANA	3-833-39
BJ	SIDERICH EVAN JTWS	3-833-42
ВК	SPORTSMAN & FARMERS ASSN	3-838-16
BL	HENSLER JEFFREY WILLIAM	3-838-29
вм	BROWN CHARLES F & DONNA	3-838-30
BN	HENSLER JEFFREY	3-B38-26

04/26/2024

REVISIONS:

COMPANY:

Production Company, LLC

OPERATOR'S

WELL #:

5H

DATE: 03-08-2024

API NO: 47-009-XXXXX

DRAWN BY: Z. WOOD

DISTRICT:
BUFFALO

BROOKE

STATE:
W

DRAWING NO: 2023-1649

WELL LOCATION PLAT

WW-6A1 (5/13)

Operator's Well No.	Worthley BRK 5H
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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
	0 5133484			

See Exhibit "A"

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Office of Oil and Gas

MAR 20 2024

viv Department of Environmental Protection

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

*Horizontal well unit utilization - Subject to unitization filing with the West Virginia Oil and Gas Conservation Commission.

*Potentially Impacted Parcels - Parcels that may be impacted during drilling.

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

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

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

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

Well Operator: SWN Production Company, LLC		
By:	Cooper Farish	
Its:	Staff Landman	
	las Caux Inu	

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

Tract#	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	Book/ Page	% Interest it Leased by Si
1	3-838-27	730164\000	Colonial Corporation and Kimberly J. Carman aka Kimberly J. Worthley, a married woman dealing in sole and separate property	Range Resources - Appalachia, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	10/250 10/552 30/480	0.00%
2	3-838-25	730164\000	Colonial Corporation and Kimberly J. Carman aka Kimberly J. Worthley, a married woman dealing in sole and separate property	Range Resources - Appalachia, LLC Chesapeake Appalachia, LL.C. SWN Production Company, LLC	14.00%	10/250 10/552 30/480	0.00%
	BETHANY PIKE	733069\000	West Virginia Department of Transportation, Division of Highways	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	18/723 30/480	0.00%
3	3-B38-27.1	730164\000	Colonial Corporation and Kimberly J. Carman aka Kimberly J. Worthley, a married woman dealing in sole and separate property	Range Resources - Appalachia, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	10/250 10/552 30/480	0.00%
4	3-838-28	730164\000	Colonial Corporation and Kimberly J. Carman aka Kimberly J. Worthley, a married woman dealing in sole and separate property	Range Resources - Appalachia, LLC Chesapeake Appalachia, LL.C. SWN Production Company, LLC	14.00%	10/250 10/552 30/480	0.00%
5	3-B38-17	730106\000	Sportsmen's and Farmers Association of Brooke County, West Virginia, a corporation	Great Lake Energy Partners, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.50%	9/674 10/552 30/480	0.00%
C (Adjacent Parcel / Possible Wellbore	3-838-15	730106\000	Sportsmen's and Farmers Association of Brooke County, West Virginia, a corporation	Great Lake Energy Partners, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.50%	9/674 10/552 30/480	0.00%
6	3-833-100	730106\000	Sportsmen's and Farmers Association of Brooke County, West Virginia, a corporation	Great Lake Energy Partners, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.50%	9/674 10/552 30/480	0.00%
7	3-833-97.2	731157\000	Danny C. Hukill and Tamera J. Hukill, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	11/199 30/480	0.00%
8	3-833-97.3	732908\000	Michael Thomas Koscevic and Sheryl Ann Koscevic, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	22/636 30/480	0.00%
	MCADOO RIDGE ROAD	746200\000	West Virginia Department of Transportation, Division of Highways	SWN Production Company, LLC	20.00%	33/644	0.00%
9	3-833-95	735614\000	Delmas O. Lancaster and Elfriede R. Lancaster, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	14/110 30/480	0.00%
10	3-B33-43	730131\000	Robert James Yano and Sue Yano, husband and wife	Fortuna Energy Inc. Range Resources - Appalachia, LLC Chesapeake Appalachia, LLC SWN Production Company, LLC	18.00%	9/652 10/203 10/552 30/480	0.00%
		732752\001	Floyd Hennis, single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	21/690 30/480	0.00%
11	3-833-38	732752\002	Veima I. McLaughlin and Lawrence McLaughlin, Sr., wife and husband	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	21/695 30/480	0.00%
		736889\000	Leona Crawley $f/k/a$ Leona LaRoche, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	24/405 30/480	0.00%
	PIERCE RUN ROAD	733069\000	West Virginia Department of Transportation, Division of Highways	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	15.00%	18/723 30/480	0.00%
		732753\001	Carolyn Kirchner Freeman and Lawrence M. Freeman, wife and husband	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	21/700 30/480	0.00%
		732753\002	Paul Lakin Smith and Bonnie Smith, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	22/547 30/480	0.00%
RECEIV of Oil	ED and Gas	732753\003	Rita K. Wineman, f/k/a Rita Kay Cominotti, a widoow	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	23/595 30/480	0.00%
ND 9 (0 2024	732753\004	John A. Cominotti, a widower	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	23/600 30/480	0.00%
AK &	0 200	732753\005	William Moran and Josie Lynn Moran, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	23/605 30/480	0.00%
v Depa conment	intmani of al Protect	732753\006	Shawn Catlin and Lisa Catlin, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14.00%	24/22 30/480	0.00%
		732753\007	Robert Joseph Smith, single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	24/27 30/480	0.00%
		732753\008	Galen Hartman Smith, Jr. and Lucille A. Smith, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	25/357 30/480	0.00%

4700900340

EXHIBIT "A" Worthley MSH 5H Brooke County, West Virginia

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

		735105\001	Loren H. Harms and Carol Lynn Harms, husband and wife	Chesapeake Appalachia, LL.C. SWN Production Company, LLC	18.00%	28/510 30/480	0.00%
		735102\001	Pyllis Ann Wheeler and Jack D. Wheeler, Wife and Husband	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	28/495 30/480	0.00%
		735106\001	Robert J. Gierke and Rhonda A. Gierke, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	28/505 28/771 30/480	0.00%
		735104\001	Lisa J. Sweeney	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	28/505 30/480	0.00%
		735142\001	Michael S. Kaplafka and Sandra M. Kaplafka, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	28/644 30/480	0.00%
		735279\000	Ella Marie Kasmarik, by and through Lisa M. Brichta, her Attorney in Fact	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	29/69 30/480	0.00%
		735216\000	Nelson Campbell Nicholls, III and Leslie S. Nicholls, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	28/725 30/480	0.00%
		735217\000	Robert J. Burns and Gertrude Margaret Burns, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	28/730 30/480	0.00%
13	3-833-29	733144\000	Phoenix-Greenlawn Partners, Limited Partnership	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	24/435 30/480	0.00%
14	3-833-23	729983\000	Phoenix-Greenlawn Partners, Limited Partnership	Great Lakes Energy Partners, L.L.C. SWN Production Company, LLC	12.50%	9/376 309/454	0.00%
AE	3-B33-24 (Adjacent Parcel / Possible Wellbore	729983\000	Phoenix-Greenlawn Partners, Limited Partnership	Great Lakes Energy Partners, L.L.C. SWN Production Company, LLC	12.50%	9/376 309/454	0.00%

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MAR 20 2024

WW Department of Environmental Protection



6770900340

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

March 12, 2024

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

RE: SWN's proposed New Well: Worthley BRK 5H in Brooke County, West Virginia, Drilling under Pierce Run Road, McAdoo Ridge Road, Bethany Pike and WV-88.

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 Pierce Run Road, McAdoo Ridge Road, Bethany Pike, and WV-88. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,

Cooper Farish Staff Landman

SWN Production Company, LLC

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Office of Oil and Gas

MAR 20 2024

WV Department of Environmental Protection

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

Date of Notic	ce Certification: 3 18	API No. 47	7_ 009 _	
		Operator's	Well No. Worth	hley BRK 5H
		•	ame: Worthle	
Notice has I	been given:			
		22-6A, the Operator has provided the req	uired parties v	vith the Notice Forms listed
	tract of land as follows:	are only and operation and provides and re-	lanca barres	
State:	West Virginia	Easting:	537855.20	
County:	009- Brooke	UTM NAD 83 Easting. Northing:	4451760.59	
District:	Buffalo	Public Road Access:	Bealls Ridge Roa	ad
Quadrangle:	Bethany	Generally used farm name:	Worthley BRK	
Watershed:	Upper Ohio South			
it has provide information reof giving the requirements Virginia Code	ed the owners of the surface describ equired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen of	nall contain the following information: (14 bed in subdivisions (1), (2) and (4), subsection sixteen of this article; (ii) that the received pursuant to subsection (a), section of this article were waived in writing by ender proof of and certify to the secretary to	section (b), sec quirement was ten of this arti the surface ov	deemed satisfied as a result cle six-a; or (iii) the notice ovner; and Pursuant to Wes
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the require ECK ALL THAT APPLY	erator has attached proof to this Notice C d parties with the following:	ertification	OOG OFFICE USE ONLY
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUSEISMIC ACTIVITY WAS CONDUCTOR		RECEIVED/ NOT REQUIRED
■ 2. NO	TICE OF ENTRY FOR PLAT SURV	TEY or NO PLAT SURVEY WAS CO	ONDUCTED	Z RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRED BECAUNOTICE OF ENTRY FOR PLAT SURVIVAS CONDUCTED or		RECEIVED/ NOT REQUIRED
		WRITTEN WAIVER BY SURFACE (PLEASE ATTACH)		
■ 4. NO	TICE OF PLANNED OPERATION	Office of Oil	and Gas	☑ RECEIVED
■ 5. PUF	BLIC NOTICE	MAR 20	2024	RECEIVED
■ 6. NO	TICE OF APPLICATION	V/V Depart Environmenta	tment of 1 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: Its:

Brittany Woody Staff Regulatory Specialist

Telephone:

304-884-1610

Address:

1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Facsimile:

304-884-1690

Email:

Brittany Woody@swn.com

Emmontonian MANAKA SEKEntonian E Notary Public, State Of West Virginia
Elizabeth Blankenship
941 Simpson Run Road
Weston WV 26452
My commission expires June 23, 2024 Subscribed and sworn before me this

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 0 0 9 0 0 340 OPERATOR WELL NO. Worthley BRK 5H

Well Pad Name: Worthley BRK

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

Not	ce Time Requirement	: notice shall be prov	ided no later	than the filing date of permit application.	
	e of Notice: 318	Date Permit Applic	ation Filed:	315	
✓	PERMIT FOR ANY WELL WORK			PPROVAL FOR THE F AN IMPOUNDMENT OR PIT	
Deli	very method pursuant	t to West Virginia C	ode § 22-6A-	-10(b)	
	PERSONAL SERVICE	REGISTERED MAIL		THOD OF DELIVERY THAT REQUIRES A CEIPT OR SIGNATURE CONFIRMATION	
sedin the solid acceptance of	ment control plan require urface of the tract on what agas leasehold being de- ribed in the erosion and stator or lessee, in the ever coal seams; (4) The own work, if the surface tract undment or pit as descri a water well, spring or water well, spring or water well work activity is extensed well work activity is extensed to the sheriff required sion of this article to the e.R. § 35-8-5.7.a require	ed by section seven of ich the well is or is preveloped by the proposed iment control plan at the tract of land on the section of the set is to be used for the ped in section nine of water supply source loon by humans or dome is to take place. (c)(1) hold interests in the lad to be maintained pure contrary, notice to a less, in part, that the ope	this article, an oposed to be losed well work submitted purswhich the well urface tract or blacement, con this article; (5 cated within or estic animals; a lf more than thands, the application holder is no rator shall also	ot or signature confirmation, copies of the application of the well plat to each of the following persons: (1) To coated; (2) The owners of record of the surface tract of it, if the surface tract is to be used for roads or other lar suant to subsection (c), section seven of this article; (2) proposed to be drilled is located [sic] is known to be tracts overlying the oil and gas leasehold being development, enlargement, alteration, repair, removal or at (2) Any surface owner or water purveyor who is known the thousand five hundred feet of the center of the well and (6) The operator of any natural gas storage field where tenants in common or other co-owners of interest cant may serve the documents required upon the person eight, article one, chapter eleven-a of this code. (2) not notice to a landowner, unless the lien holder is the oprovide the Well Site Safety Plan ("WSSP") to the sing as provided in section 15 of this rule.	he owners of record of or tracts overlying the and disturbance as B) The coal owner, underlain by one or oped by the proposed abandonment of any to the applicant to I pad which is used to ithin which the s described in on described in the Notwithstanding any landowner. W. Va.
☑ A	pplication Notice	WSSP Notice □E&	&S Plan Noti	ce Well Plat Notice is hereby provided to:	
	RFACE OWNER(s)	/		☐ COAL OWNER OR LESSEE	
	e: Kimberly & Alan Worthley		_	Name: Melvin Peluchette	RECEIVED
	ess: 21 Atlantic Point Drive		_	Address: 415 N. Front Street	Office of Oil and Gas
	nmons Island, GA 31522		_	Wheeling, WV 26003	
Nam			_	COAL OPERATOR	MAR 20 2024
Auu	CSS			Name:	
12.	RFACE OWNER(s) (F	Road and/or Other Di		Address:	
	e:			☑ SURFACE OWNER OF WATER WELL	Will Department of Environmental Projection
Addı	ess:		_	AND/OR WATER PURVEYOR(s)	LITTERATION
				Name: See Attachment 13A	
Nam	e:			Address:	
Addı	ess:				_
			_	OPERATOR OF ANY NATURAL GAS STO	ORAGE FIELD
	RFACE OWNER(s) (I			Name:	
Nam	e:		_	Address:	_
Addı	ess:		_		
				*Please attach additional forms if necessary	

WW-6A (9-13)

API NO. 47- 009 OPERATOR WELL NO. Worthley BRK 5H
Well Pad Name: Worthley BRK

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

Notice Time Requirement: notice shall be	be provided no later than the filing date of permit application	1.
Date of Notice: Date Permit A	Application Filed: 3	
	ERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT	
Delivery method pursuant to West Virg	ginia Code § 22-6A-10(b)	
☐ PERSONAL ☐ REGISTER	EED	S A
SERVICE MAIL	RECEIPT OR SIGNATURE CONFIRMATION	
registered mail or by any method of delivery sediment control plan required by section set the surface of the tract on which the well is oil and gas leasehold being developed by the described in the erosion and sediment controperator or lessee, in the event the tract of lamore coal seams; (4) The owners of record well work, if the surface tract is to be used fimpoundment or pit as described in section have a water well, spring or water supply so provide water for consumption by humans of proposed well work activity is to take place, subsection (b) of this section hold interests it records of the sheriff required to be maintain provision of this article to the contrary, notic Code R. § 35-8-5.7.a requires, in part, that	of an impoundment or pit as required by this article shall deliver, by that requires a receipt or signature confirmation, copies of the appear of this article, and the well plat to each of the following person or is proposed to be located; (2) The owners of record of the surface proposed well work, if the surface tract is to be used for roads of old plan submitted pursuant to subsection (c), section seven of this and on which the well proposed to be drilled is located [sic] is known of the surface tract or tracts overlying the oil and gas leasehold be for the placement, construction, enlargement, alteration, repair, remaine of this article; (5) Any surface owner or water purveyor who carried outline one thousand five hundred feet of the center of the domestic animals; and (6) The operator of any natural gas storage (c)(1) If more than three tenants in common or other co-owners of in the lands, the applicant may serve the documents required upon the pursuant to section eight, article one, chapter eleven-a of this ce to a lien holder is not notice to a landowner, unless the lien hold the operator shall also provide the Well Site Safety Plan ("WSSP" notice and water testing as provided in section 15 of this rule.	opplication, the erosion and ons: (1) The owners of record of face tract or tracts overlying the or other land disturbance as article; (3) The coal owner, own to be underlain by one or being developed by the proposed moval or abandonment of any is known to the applicant to of the well pad which is used to ge field within which the of interests described in the person described in the code. (2) Notwithstanding any lader is the landowner. W. Va.
☑ Application Notice ☑ WSSP Notice	□ E&S Plan Notice □ Well Plat Notice is hereby provide	ded to:
□ SURFACE OWNER(s) Name:	COAL OWNER OR LESSEE Name: Consol	RECEIVED Office of Oil and Gas
Address:	Address: 275 Technology Drive, Suite 101 Canonsburg PA 15317	MAR 2 0 2024
Name:Address:	COAL OPERATOR Name: Address:	WV Department of Environmental Protection
SURFACE OWNER(s) (Road and/or O Name:	ther Disturbance)	
Address:	AND/OR WATER PURVEYOR(s)	
	Name:	
Name:Address:	Address:	
	OPERATOR OF ANY NATURAL	GAS STORAGE FIELD
SURFACE OWNER(s) (Impoundments		
Address:		
	*Please attach additional forms if nece	essary

API N 4. 7 - 0 0 9 0 0 340 OPERATOR WELL NO. Worthley BRK 5H

Well Pad Name: Worthley BRK

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.

Office or Oil and Gas

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 Misiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

WV Department of Environmental Protection

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

WW-6A (8-13)

API NO. 47-009

OPERATOR WELL NO. Worthley BRK 5H

Well Pad Name: Worthley BRK

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

MAR 20 2024

WV Department of Environmental Protection

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

WW-6A (8-13) API NO. 47-009 O 9 0 0 34C OPERATOR WELL NO. Worthley BRK 5H Well Pad Name: Worthley BRK

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

RECEIVED
Office of Oil and Gas

MAR 20 2024

Environmental resolution

WW-6A (8-13)

4700990340

OPERATOR WELL NO. Worthley BRK 5H

Well Pad Name: Worthley BRK

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 deprivacyofficer@wv.gov.



Subscribed and sworn before me this 8 day of Feb , 2024

Notary Public

My Commission Expires

Office of Oil and Gas

MAR 20 2024

WV Department of Environmental Protection

PARCEL_ID	OWNER	PARCEL_ADDRESS	OWNER ADDRESS	CITY	ZIP	Type
	HENSLER JEFFREY WILLIAM	1281 BEALLS RIDGE RD	4204 25444 2545 25	WELLSBURG		Type Water Well
03 B38002600000000	CARRINGTON MORTGAGE SERVICES,LLC.	1326 BEALLS RIDGE RD	4600 001 001		928065948	



4700900340

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

		quirement:	Notice shall be prov	ided at le	east SEVEN (7	7) day	s but no more than	FORTY-FIVE (45) days prior to	
Date	of Notice:	12/13/2023	Date of Pla	nned En	try: 12/20/2023				
Deli	very metho	d pursuant t	to West Virginia C	ode § 22	-6A-10a				
	PERSONA	L I	REGISTERED		METHOD OF	DEL	IVERY THAT RE	QUIRES A	
	SERVICE		MAIL	I	RECEIPT OR S	SIGN	ATURE CONFIR	MATION	
on to but r bene own and Secr enab	o the surface no more than eath such trace er of minera Sediment Co etary, which ole the surface	tract to cond a forty-five d to that has fill ls underlying ontrol Manua statement slee owner to co	duct any plat survey ays prior to such en led a declaration put g such tract in the coal and the statutes are hall include contact obtain copies from the	s required try to: (1) resuant to bunty tax and rules re informat	d pursuant to the office of the surface of the section thirty-seconds. The related to oil and ion, including the surface of th	his art owner six, ar notice d gas	ticle. Such notice si of such tract; (2) to ticle six, chapter to shall include a stall exploration and pr	shall provide notice of planned entry hall be provided at least seven days o any owner or lessee of coal seams wenty-two of this code; and (3) any tement that copies of the state Erosion roduction may be obtained from the ge on the Secretary's web site, to	
_		provided to	0:		■ (COAL	OWNER OR LES	SSEE	
	SURFACE								
	Name: Kimberly and Alan Worthley Address: 524 Marsh Circle				Name: CONSOL Address: 275 Technology Drive Suite 101				
	Address: 524 Marsh Circle St. Simons Island, GA 31522				Address: 275 Technology Drive Suite 101 Office of Oil and Gas				
Nan	ne:							MAD	
Add	ress:			_	■ N	MINE	RAL OWNER(s)	MAR 20 2024	
				_			berly and Alan Worthley		
Nan	ne:				Addre	ess: 5	524 Marsh Circle	Department of	
Add	ress:				200		nd, GA 31522	Environmental Protection	
				_ 1	*please	e attach	additional forms if nec	cessary	
Purs	at survey on	t Virginia Co the tract of l	ode § 22-6A-10(a), and as follows:	notice is			e undersigned well	operator is planning entry to conduct 40.216682, -80.548923	
Cou	nty: Br	rooke			Public Re	oad A	access:	Bealls Ridge Road	
Dist		uffalo			_	Watershed:		Upper Ohio South	
Qua	drangle: Be	ethany			_ Generally	y use	d farm name:	Worthley BRK	
may	be obtained rleston, WV	from the Se 25304 (304	cretary, at the WV	Departme s of such	ent of Environn documents or a	nenta additi	l Protection headquonal information re	Il and gas exploration and production parters, located at 601 57 th Street, SE, elated to horizontal drilling may be	
Not	ice is herel	by given by	<i>r</i> :						
			TION COMPANY, LLC		Addres	ss:	1300 Fort Pierpont Dr., S	Suite 201	
	phone:	304-884-1610					Morgantown, WV 26508		
Ema	_	brittany_woody@	®swn.com		Facsin	nile:			
		,,							

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-6A3 (1/12)

Operator Well No. Worthley BRK

4700900340

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

	equirement:	Notice shall be provide	led at least SE	EVEN (7) day	ys but no more than	FORTY-FIVE (45) days prior to		
Date of Notice:	12/13/2023	Date of Planr	ned Entry: 12	/20/2023				
Delivery metho	od pursuant t	to West Virginia Coo	le § 22-6A-10)a				
PERSONA SERVICE		REGISTERED MAIL			IVERY THAT RE			
on to the surface but no more that beneath such tra- owner of minera and Sediment C Secretary, whice enable the surface	te tract to cond an forty-five d act that has fil als underlying Control Manua th statement shace owner to o	duct any plat surveys a ays prior to such entry ed a declaration pursu g such tract in the count all and the statutes and hall include contact in btain copies from the	required pursury to: (1) The solution and to section only tax recording rules related to formation, incomparison.	unt to this ar urface owner thirty-six, ar s. The notice to oil and gas	ticle. Such notice s of such tract; (2) to ticle six, chapter to e shall include a sta e exploration and pr	shall provide notice of planned entry hall be provided at least seven days o any owner or lessee of coal seams wenty-two of this code; and (3) any tement that copies of the state Erosion roduction may be obtained from the ge on the Secretary's web site, to		
Notice is hereb):		■ COAL	OWNER OR LES	SSEE		
Name: Kimberly &	8.5					DEC		
Address: 21 Atlar				Name: Melvin Peluchette Address: 415 N Front Street Managing IMV 36003				
St. Simmons Islands,				Wheeling, W 26003				
Name:				MAR 2 0 2024				
Address:				MINE	ERAL OWNER(s)			
				Name: Bou	nty Minerals, LLC	Environmental D		
Name:				Address: 777 Main Street Suite 3400 Environmental Protection				
Address:								
				*please attach	n additional forms if nec	cessary		
a plat survey on State:	st Virginia Co the tract of la		A	pprox. Latitu	ıde & Longitude:	operator is planning entry to conduct 40.216682, -80.548923		
	Brooke			ublic Road A	ccess:	Bealls Ridge Road		
	Buffalo			Watershed: Generally used farm name:		Upper Ohio South		
Quadrangle: B	Bethany			renerally used	d farm name:	Worthley BRK		
may be obtained Charleston, WV	d from the Sec 7 25304 (304-	cretary, at the WV De	partment of E f such docume	nvironmenta ents or additi	l Protection headqu onal information re	I and gas exploration and production parters, located at 601 57 th Street, SE, elated to horizontal drilling may be		
Notice is here	hy given by							
Well Operator:		ION COMPANY, LLC		Address:	1300 Fort Pierpont Dr., S	Suite 201		
Telephone:	304-884-1610	.c., John Fift, ELO			Morgantown, WV 26508			
Email:	brittany_woody@	swn com		Facsimile:				
		parrii. Golii		. acomine.				

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.

STATE OF WEST VIRGINIA 47 0 0 9 0 0 340 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 Date of Notice	Requirement: Notice shall be provided e: 02/13/2024 Date Po	at least TEN (10) days prior to filing a	permit application.
Delivery met	nod pursuant to West Virginia Code §	22-6A-16(b)	
☐ HAND DELIVE	CERTIFIED MAIL RY RETURN RECEIPT RE	EQUESTED	
receipt reques drilling a hori of this subsect subsection ma	ted or hand delivery, give the surface over zontal well: <i>Provided</i> , That notice give tion as of the date the notice was provide	when notice of its intent to enter upon the pursuant to subsection (a), section to end to the surface owner: <i>Provided</i> , however. The notice, if required, shall include	, an operator shall, by certified mail return he surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number, or's authorized representative.
Notice is he	eby provided to the SURFACE O	WNER(s):	Office of Oil and Gas
Name: Kimberly	Worthley and Alan Worthley	Name:	
Address: 21 At 21 Atlantic Point I		Address:	MAR 2 0 2024
the surface ov State: County: District: Quadrangle: Watershed:	vner's land for the purpose of drilling a law WV Brooke Buffalo Bethany, WV Upper Ohio South	Orizontal well on the tract of land as for Easting: Orthogonal Well on the tract of land as for Easting: Northing: Public Road Access: Generally used farm name:	well operator has an intent to enter upon ollows: 537855.20 4451760.59 Bealls Ridge Road Worthley BRK
This Notice	Shall Include:		
facsimile nun related to hor located at 601	aber and electronic mail address of the izontal drilling may be obtained from to 57th Street, SE, Charleston, WV 25304	e operator and the operator's authorize the Secretary, at the WV Department of	ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
facsimile nun related to hor located at 601 Notice is he	aber and electronic mail address of the izontal drilling may be obtained from to 57 th Street, SE, Charleston, WV 25304 reby given by:	e operator and the operator's authorize the Secretary, at the WV Department of (304-926-0450) or by visiting <a href="https://www.department.com/w</td><td>ded representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.</td></tr><tr><td>facsimile nun
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Notice is he
Well Operator</td><td>nber and electronic mail address of the izontal drilling may be obtained from to 57th Street, SE, Charleston, WV 25304 reby given by: SWN Production Company, LLC</td><td>e operator and the operator's authorize he Secretary, at the WV Department of (304-926-0450) or by visiting www.de</td><td>red representative. Additional information of Environmental Protection headquarters, ep. wv. gov/oil-and-gas/pages/default.aspx. Reid Croft</td></tr><tr><td>facsimile nun
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Oil and Gas Privacy Notice:

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WW-6A5 (1/12) Operator Well No. WORTHLEY BRK 5H

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

	tice: 02/13/2024 Date Permit App		date of permit	application.		
Delivery m	ethod pursuant to West Virginia Code § 22-	-6A-16(c)	1			
■ CER	TIFIED MAIL	IAND DELIVERY				
return recei the planned required to drilling of a damages to	W. Va. Code § 22-6A-16(c), no later than the pt requested or hand delivery, give the surface deporation. The notice required by this subset provided by subsection (b), section ten of the horizontal well; and (3) A proposed surface the surface affected by oil and gas operations in the surface affected by this section shall be given to the surface affected by this section shall be given to the surface affected by this section shall be given to the surface affected by this section shall be given to the surface affected by this section shall be given to the surface affected by the surface affected by this section shall be given to the surface affected by the surface affecte	owner whose land section shall inclu- his article to a surf- te use and compen- to the extent the da	d will be used for de: (1) A copy ace owner whos sation agreemen amages are comp	or the drilling of a horizontal well notice of of this code section; (2) The information the land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter.		
(at the addr Name: Kimbe	ereby provided to the SURFACE OWNER(sees listed in the records of the sheriff at the time of the work of the sheriff at the time of the sheriff at the sheriff at the time of the sheriff at the time of the sheriff at the sh			WV Department of		
Pursuant to	West Virginia Code § 22-6A-16(c), notice is to the surface owner's land for the purpose of complete the surface owner's land for the purpose of complete the surface owner's land for the purpose of complete the surface owner's land for the purpose of complete the surface owner's land for the purpose of complete the surface owner's land for the purpose of complete the surface owner's land for the purpose of complete the surface owner's land for the purpose of complete the surface owner's land for the purpose of complete the surface owner's land for the purpose of complete the surface owner's land for the purpose of complete the surface owner's land for the purpose of complete the surface owner's land for the purpose of complete the surface owner's land for the purpose of complete the surface owner's land for the purpose of complete the surface owner's land for the purpose of complete the surface owner's land for the purpose of complete the surface owner's land for the purpose of complete the surface owner's land for the purpose of complete the surface owner's land for the su	drilling a horizonta UTM NAD 8 Public Road	Il well on the tra Easting: Northing:			
This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx .						
Well Opera Telephone:	TOT: SWN Production Company, LLC 304-884-1642	Address:	1300 Fort Pierpont I			
Email:	reid_croft@swn.com	Facsimile:	worganiown, wv 26	XXVO		

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.



Division of Highways

Office of the District Engineer/Manager District Four

Post Office Box 4220 · Clarksburg, West Virginia 26302 · (304) 842-1500

Alanna J. Keller, P.E. Deputy Secretary of Transportation Deputy Commissioner of Highways

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

February 5, 2024

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

Subject: DOH Permit for the Kimberly Worthley Well Pad, Brooke County Worthley BRK 5H Well Site

Dear Mr. Martin.

This well site will be accessed from a DOH permit #06-2012-0520 which has been issued to SWN Production Company, LLC for access to the State Road for a well site located off Brooke County Route 88 SLS MP 3.96.

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 March 6, 2023. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Stephen G. Johnson, P.E. Director of Operations

Office of Oil and Gas
MAR 20 2024

Environmental Fruiection

Cc: Brittany Woody

SWN Production Company, LLC

OM, D-6 File

Attachment VI Frac Additives

Product Name	Product Use	Chemical Name	CAS Number
ICL	Solvent	Hydrochloric Acid	7647-01-0
		Water	7732-18-5
STI-CI-02	Corrosion Inhibitor		111-76-2
		Ethylene glycol	107-21-1
		N,N-Dimethylformamide	68-12-2
		benzyl chloridequaternized	72480-70-7
		Cinnamaldehyde	104-55-2
		Isopropyl alcohol	67-63-0
		Poly(oxy-1,2-ethanediyl), .alpha(nonylphenyl)omegahydroxy-	9016-45-9
		1-Decanol	112-30-1
		1-Octanol	111-87-5
		Triethyl phosphate	78-40-0
Ferriplex 80	Iron Control		
		Sodium Erythorbate	6381-77-7
Tolicide 4Frac	Biocide	Tetrakis(Hydroxymethyl) Phosphonium Sulfate	55566-30-8
		Quaternary ammonium compounds	68424-85-1
		Ethanol	64-17-5
		Water	7732-18-5
Plexslick 930	Friction Reducer	Hydrotreated Petroleum Distillate	64742-47-8
		Water	7732-18-5
		copolymer of 2-propenamide	69418-26-4
		Oleic Acid Diethanolamide	93-83-4
		Alcohol Ethoxylate Surfactants	68551-12-2
		Ammonium Chloride	12125-02-9
		Sodium Chloride	7647-14-5
Plexaid 655NM	Caala Inhibitas		ANELONI (IEDONE)
Plexald 655NIVI	Scale Inhibitor	ORGANIC PHOSPHONIC ACIDS SALTS	15827-60-8
		Water	7732-18-5
Plexslick V996	Friction Reducer	Hydrotreated Petroleum Distillate	64742-47-8
		Water	7732-18-5
		copolymer of 2-propenamide	69418-26-4
		Alcohol Ethoxylate Surfactants	68551-12-2
		Sodium Chloride	7647-14-5
Plexaid 655WG	Scale Inhibitor	ORGANIC PHOSPHONIC ACIDS SALTS	15827-60-8
		Water	7732-18-5
		Glycerin	67-56-1
Clearal 270	Biocide	Glutaraldehyde	111-30-8
Liedi di 270	biocide	Statistical Access to the Second Control of	
		Didecyldimethylammonium Chloride	7173-51-5
		Quaternary Ammonium compounds, Benzyl-C12-C16-alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
		Water	7732-18-5
StimSTREAM SC 398 CW	Scale Inhibitor	Ethylene glycol	107-21-1
		CHEMSTREAM-Polymer-10001	CHEMSTREAM-Polymer-10001
		CHEMSTREAM-Polymer-10002	CHEMSTREAM-Polymer-10002
		Water	7732-18-5
StimSTREAM FR 9800	Friction Reducer	Chemstream-Alkane-00001	Chemstream-Alkane-00001
		Chemstream-Polymer-00001	Chemstream-Polymer-00001
		Ethoxylated alcohols (C12-16)	68551-12-2
		1.00 PM 10 P	
THE STREAM ED 2000	Full-Man Bandings	Water Position (action of the control of the contro	7732-18-5
StimSTREAM FR 2800	Friction Reducer	Distillates (petroleum), hydrotreated light	64742-47-8
		Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9
		Water	7732-18-5
StimSTREAM FR 9725	Friction Reducer	Distillates (petroleum), hydrotreated light	64742-47-8
		Ammonium Chloride	12125-02-9
		Water	7732-18-5
StimSTREAM SC 398 C	Scale Inhibitor	CHEMSTREAM-Polymer-10001	CHEMSTREAM-Polymer-1000:
		CHEMSTREAM-Polymer-10002 RECEIVED	CHEMSTREAM-Polymer-10002
		Water Office of Oil and Gas	7732-18-5

MAR 20 2024

W/ Department of Environmental Protection WW-6A7 (6-12)

OPERATOR: SWN Production (Co., LLC WELL NO: Worthley BRK 5H
PAD NAME: Worthley BRK	
REVIEWED BY:	signature: Billiny Woody

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

Well 1	Restri	ctions * Pad Built 1	1/9/12
		At Least 100 Feet from Pad and LOD (including any E&S Control Feet Perennial Stream, Lake, Pond, Reservoir or Wetland; OR	ature) to any
		DEP Waiver and Permit Conditions	
		At Least 300 Feet from Pad and LOD (including any E&S Control Feet Naturally Producing Trout Stream; OR	ature) to any
		DEP Waiver and Permit Conditions	
		At Least 1000 Feet from Pad and LOD (including any E&S Control Fe Groundwater Intake or Public Water Supply; OR	eature) to any
		DEP Waiver and Permit Conditions	
		At Least 250 Feet from an Existing Water Well or Developed Spring t Drilled; OR	o Well Being
		Surface Owner Waiver and Recorded with County Clerk, OR	
		DEP Variance and Permit Conditions	
		At Least 625 Feet from an Occupied Dwelling Structure to Center of t	he Pad; OR
		Surface Owner Waiver and Recorded with County Clerk, OR	
		DEP Variance and Permit Conditions	
		At Least 625 Feet from Agricultural Buildings Larger than 2500 Squa of the Pad; OR	re Feet to the Center
		Surface Owner Waiver and Recorded with County Clerk, OR	RECEIVED Office of Oil and Gas
		DEP Variance and Permit Conditions	MAR 2 0 2024

ACCESS ROAD ENTRANCE NATIONAL ROAD (US HWY 40)

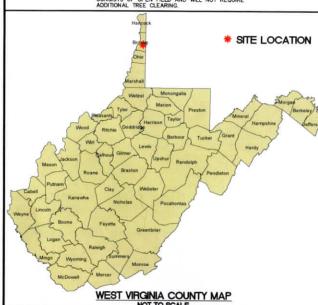
USGS 7.5 BETHANY QUAD MAP



EXISTING PERMITTED DISTURBED AREA: 9.69 ACRES PROPOSED ADDITIONAL DISTURBED AREA: 9.67 ACRES TOTAL DISTURBED AREA: 9.76 ACRES ROAD DISTURBED AREA: 2.90 ACRES PAD DISTURBED AREA: 2.80 ACRES

ADDITIONAL LIMITS OF DISTURBANCE BREAKDOWN BY OWNER CARMAN, KIMBERLY J TAX MAP AND PARCEL 02-03-B38-0027-0000 0.07 ACRES*

THE PROPOSED ADDITIONAL DISTURBED AREA CONSISTS OF OPEN FIELD AND WILL NOT REQUIRE ADDITIONAL TREE CLEARING.



WORTHLEY BRK AUXILIARY PAD

CONSTRUCTION & RECLAMATION PLAN

BUFFALO DISTRICT, BROOKE COUNTY, WV **JUNE 2018**

LOCATION COORDINATES: ACCESS ROAD ENTRANCE

LATITUDE: 40.217678 LONGITUDE: -80.556912 N 4452011.93 E 537701.55

(NAD-83) (UTM ZONE 17 METERS)

AUXILIARY PAD CENTER

LATITUDE: 40.216164 LONGITUDE: -80.555636 N 4451844.43 E 537810.96

(NAD-83) (UTM ZONE 17 METERS)

ENTRANCE PERMIT:

SWN WILL OBTAIN AN ENCROACHMENT PERMIT (FORM MM-109) FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

A GEOTECHNICAL INVESTIGATION REPORT HAS BEEN COMPLETED ON JULY 2, 2018 BY LARSON DESIGN GROUP

ENGINEERING EST	TIMATE OF QU	JANTITIES		
SITE C	UANITITES			
#1 (3") BASE STONE	390		TON	
#467 TOP STONE	1225		TON	
INSTALL MOUNTABLE BERM	30		CY	
CHANNEL LENGTH	234		LF	
CHANNEL STONE	43		CY	
TOE KEY DRAIN PIPE	275		LF	
TOE KEY EXCAVATION	200		CY	
BONDING BENCH EXCAVATION	2750		CY	
GEOTEXTILE FABRIC	3600		SY	
ROCK FILTER	2		EA	
STRAW SLOPE MATTING	4100		SY	
18" COMPOST SOCK	60		LF	
SEED & STRAW MULCH	5250		SY	
EAR	THWORK			
DESCRIPTION	CUT (CY)	FILL (CY)	NET (CY)	
ACCESS ROAD	4400	30	4370 <cut></cut>	
AUXILIARY PAD	1500	5800	4300	

QUANTITIES SHOWN UNDER THE EARTHWORK CATEGORY ARE CUMULATIVE OF FINAL GRADE AND SUBGRADE EXCAVATION. ANY EXCAVATION QUANTITIES SHOWN IN THE SITE QUANTITIES CATEGORY ARE ADDITIONAL

SHEET INDEX

COVER SHEET
EVACUATION ROUTE/PREVAILING W
OVERALL SITE PLAN
SITE PLAN
ACCESS ROAD PROFILE
ACCESS ROAD CROSS SECTIONS
AUXILIARY PAD PROFILE
AUXILIARY PAD CROSS SECTIONS
SITE RECLAMATION PLAN
CONSTRUCTION DETAILS

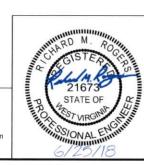
RECEIVED Office of Oil and Gas

MAR 2 0 2024

West Department of Environmental Protection



MISS Utility of West Virginia 1-800-245-4848 West Virginia State Law (Section XIV: Chapter 24-C) Requires that you call two business days before you dig in the state of West Virginia. IT'S THE LAW!!





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				CMM	CMM	ВУ	
				FINAL DESIGN, REV. 1	FINAL DESIGN	COMMENTS	
				2 7/12/2018	6/25/2018	DATE	
				2	-	ó	
		T	ors				

C-1 PROJECT NO. 7688-017-003