

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 11, 2022 WELL WORK PERMIT Horizontal 6A / New Drill

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

Re: Permit approval for SHANNON FIELDS OHI 10H 47-069-00338-00-00

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.

Jame bief

Operator's Well Number: SHANNON FIELDS OHI 10H Farm Name: SHANNON FIELDS, LLC U.S. WELL NUMBER: 47-069-00338-00-00 Horizontal 6A New Drill Date Issued: 4/11/2022

Promoting a healthy environment.

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. <u>Failure to adhere to the specified permit</u> conditions may result in enforcement action.

CONDITIONS

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

API Number:

4

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

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4706900338 API NO. 47-009

WW-6B (04/15)

OPERATOR WELL NO. Shennon Fields OHI 10H Well Pad Name: Shannon Fields OHI .

1) Well Opera	or SWN	Production	Co., LLC	494512924	069-Ohio	005-Ric	674-Wheeling
				Operator ID	County	District	Quadrangle
				OHI 10H Well F			
3) Farm Name	/Surface Ov	vner: Shan	non Field	is, LLC Public R	oad Access: Bo	oggs Hill Roa	d (Country Route 15/1)
4) Elevation, c	urrent orou	nd: 1232'		Elevation, propose	ed post-construe	etion: 1230) [*]
5) Well Type		x	Oil		iderground Stor		
	Other						
	(b)If Gas	Shallow	x	Deep			-10
		Horizonta	ıl X		MAK	- 1/24/20	122
6) Existing Pa							
 Proposed T Target Formation 	- Marcellus, Dowr	tion(s), Dep 1-Dip Well to the S	th(S), An outh, Target T	ticipated Thicknes op TVD- 6205', Target Base	s and Expected TVD- 6264', Anticipal	ed Thickness- 59'	Associated Pressure- 4072
8) Proposed T	otal Vertica	Depth: 62	242'				
9) Formation a			Marcel	us			
10) Proposed			19791'	1			
11) Proposed			12,768	.92 /			
12) Approxim			Depths:	351'			
13) Method to				Deepest Nearb	y Water Well	-	
14) Approxim				-			
15) Approxim			1.1.1.2.				
Contraction of the				mine, karst, other)	: Possible Vo	id 503' -	RECEIVED Office of Oil and Gas
17) Does Prop	osed well lo	ocation conta	ain coal s	eams			MAR 1 1 2022
directly overly]	No ×	way Department of
(a) If Yes, pr	rovide Mine	Info: Nan	ne:			_	Environmental Protectio
		Dep	th:				
		Sea	m:				
		Own	ner:				



APING 7-0.6900338

OPERATOR WELL NO. Shannon Fields OHI 10H

Well Pad Name: Shannon Fields OHI

WW-6B (04/15)

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	<u>New</u> or Used	Grade	<u>Weight per ft.</u> (lb/ft)	<u>FOOTAGE: For</u> <u>Drilling (ft)</u>	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	126'	126' 🖌	CTS
Fresh Water	13 3/8"	New	H-40	48#	555'	555' 🛩	534 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	1930'	1930' -	848 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	19791'	19791' 🧹	Tail 2530sk/ 100' Inside Intermediate
Tubing							
Liners							

ADK 1/24/2022,

TYPE	Size (in)	<u>Wellbore</u> Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	<u>Burst Pressure</u> (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A	1.20/30% Excess
Fresh Water	13 3/8"	17.5"	0.380	2730	633	Class A	1.20/30% Excess
Coal	See	Surface	Casing				
Intermediate	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/40% Excess
Production	5 1/2"	8 3/4"-8 1/2"	0.361	14360	10500	Class A	1.19/5% Excess
Tubing							
Liners							·

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PACKERS

WV Department of Environmental Protoction

Environmental Protection

OPERATOR WELL NO. Shannon Fields OHI 10H Well Pad Name: Shannon Fields OHI

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

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

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 20.94

22) Area to be disturbed for well pad only, less access road (acres): 17.00

23) Describe centralizer placement for each casing string:

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

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

See Attachment ***

25) Proposed borehole conditioning procedures:

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

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*Note: Attach additional sheets as needed.

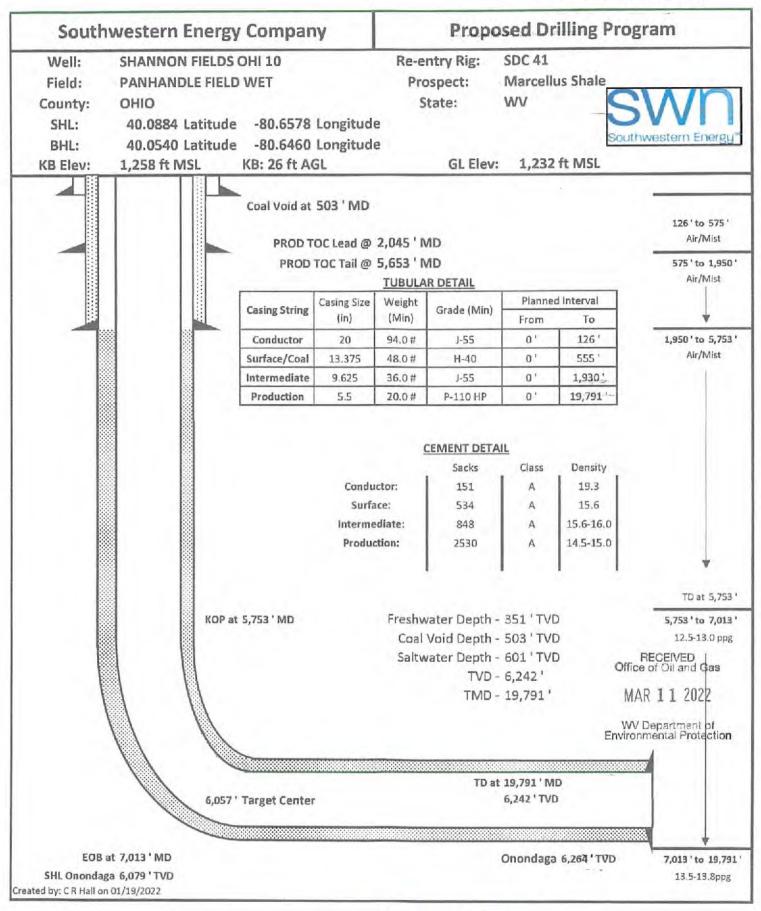


			CEMENT A	ADDITIVES		2012
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE (FRESHWATER)	\times	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
up to 3%	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION	\ge	INTEGRA SEAL	C1600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
up to 3%	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
	D020	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D047	FP 28L	\boxtimes	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
PRODUCTION	INTEGRA CI600 LOST CIRC MATERIAL CEL		CELLOPHANE FLAKES	9005-81-6		
	CemNet	\times	\ge	LOST CIRC MATERIAL	COATED FIBERGLASS FIBERS	PROPRIETAR
	SUGAR	SUGAR	CJ795	CMT RETARDER	SUCROSE	57-50-1
	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
	>	> <	CJ111	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
	\geq	SS-11W	CJ880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	D047	FP 28L	\times	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	\ge	\ge	CJX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
	\geq	\times	CJ540	HP FLUID LOSS ADDITIVE	ALIPHATIC AMIDE POLYMER	PROPRIETAR
	D255	\times	\succ	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETAR
	>	> <	CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
	FL-66		CJ501	LOW TEMP FLUID LOSS ADD	POWDERED POLYSACCHARIDE	PROPRIETAR
	> <	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	\succ	VISCOSIFIER/ANTI- SETTLING AGENT	REFINED POLYMER/ CHRYSTALLINE SILICA	PROPRIETAR
	D198	R-3		CEMENT RETARDER	LIGNIN	8068-51-6
	SUGAR	SUGAR	CJ795	CEMENT RETARDER	SUCROSE	57-50-1

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04/15/2022

WW-9	4706900338
DEPARTMENT O	API Number 47 - 069 Operator's Well No. Shannon Fields OHI 10H TE OF WEST VIRGINIA OF ENVIRONMENTAL PROTECTION FICE OF OIL AND GAS
FLUIDS/ CUTTING	IS DISPOSAL & RECLAMATION PLAN
Operator Name SWN Production Co., LLC	OP Code 494512924
Watershed (HUC 10) Upper Ohio South	Quadrangle Wheeling
Do you anticipate using more than 5,000 bbls of water will a pit be used? Yes No V	to complete the proposed well work? Yes No
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes	
Proposed Disposal Method For Treated Pit Wa	ASTES:
Land Application	C Permit Number_ Various Approved Facilities)
Reuse (at API Number Attin	
Off Site Disposal (Supply for	orm WW-9 for disposal location)
Other (Explain_ recovery and	d solidification on site
Will closed loop system be used? If so, describe: Yes	- See Attachment 3A
Drilling medium anticipated for this well (vertical and l	horizontal)? Air, freshwater, oil based, etc. Ar dai to KOP, fuld drill with SDBM Wort KOP to TD
-If oil based, what type? Synthetic, petroleum	, etc. Synthetic Oil Base
Additives to be used in drilling medium? Attachment 30	В
Drill cuttings disposal method? Leave in pit, landfill, r	
-If left in pit and plan to solidify what medium	will be used? (cement, lime, sawdust)
-Landfill or offsite name/permit number? Mea	idowfill SWF-1032, Short Creek SWF-1034,Carbon Limestone MSWL018781, Wetzel County 1021
	Dil and Gas of any load of drill cuttings or associated waste rejected at any provided within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the	ms and conditions of the GENERAL WATER POLLUTION PERMIT issu West Virginia Department of Environmental Protection. I understand that ations of any term or condition of the general permit and/or other applica

law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there penalties for submitting false information, including the possibility of fine or imprisonment. Office of Oil and Gas

penances for submitting faise information, including the possibility of the of imprisonment.	
Company Official Signature BAHLANUY WOOdy Company Official (Typed Name) Brittany Woody	MAR 1 1 2022
Company Official (Typed Name) Brittany Woody	WV Department of
Company Official Title Senior Regulatory Analyst	Environmental Protection

Subscribed and sworn before me this 14th day of OECEMBEN	. 20 27	and the second
and the	Notary Public	JUSTIN BOOTH Notary Public Official Seal
My commission expires 3/2/2022		State of West Virginia My Comm. Expires March. 2022

Attachment 3A

CLOSED LOOP SYSTEM

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

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

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

AIR DRILLING INTERVALS

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

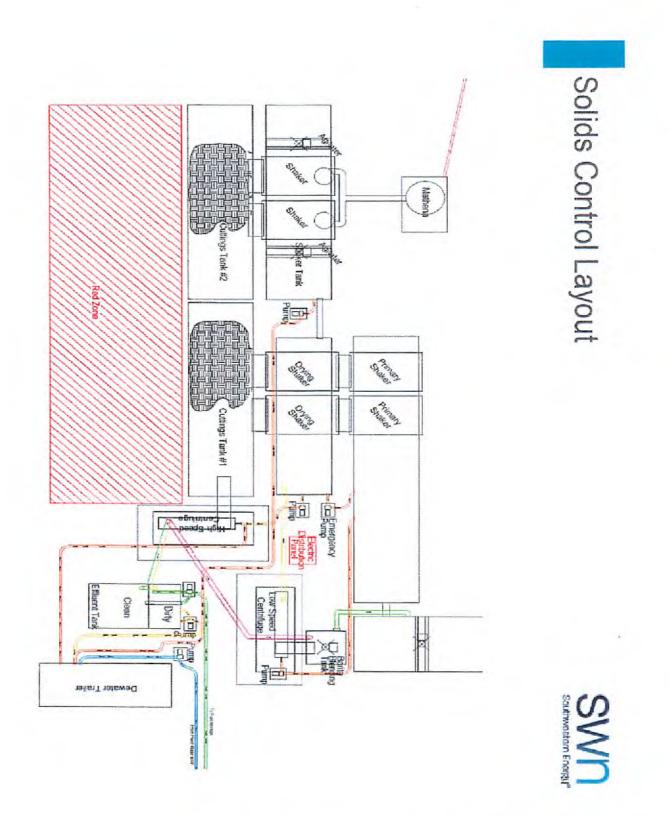
LIQUIDS DRILLING (FRESHWATER, BRINE, SOBM)

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

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EXAMPLE SCHEMATIC FOR CLOSED LOOP SOLIDS CONTROL SYSTEM

Attachment 3B

Drilling Mediums

Surface/Coal(if present)/Freshwater Intervals:

Air

Freshwater (if needed based on conditions)

Intermediate/Coal (if present):

Air

Production Hole:

Air

Synthetic Oil (Base Fluid for mud system)

Barite

Calcium Chloride

Lime

Organophilic Bentonite

Primary and Secondary Emulsifiers

Gilsonite

Calcium Carbonate

Friction Reducers

Form WW-9

Operator's Well No. Shannon Fields OHI 10H

SWN Production Co., LLC

Limeas determined by pH tost min 2 Tons/acre or to correct to pH17.00 Fertilizer type10-20-20
<u>Seed Mixtures</u> Temporary Permanent
Seed Type Ibs/acre Seed Type Ibs/acre
Attachment 3C

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Hayne & An		
Comments:		
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		MAR 1 1 2022
Title: Oil & Gas Inspector	Date: 1/24/2002	WV Department of Environmental Protection

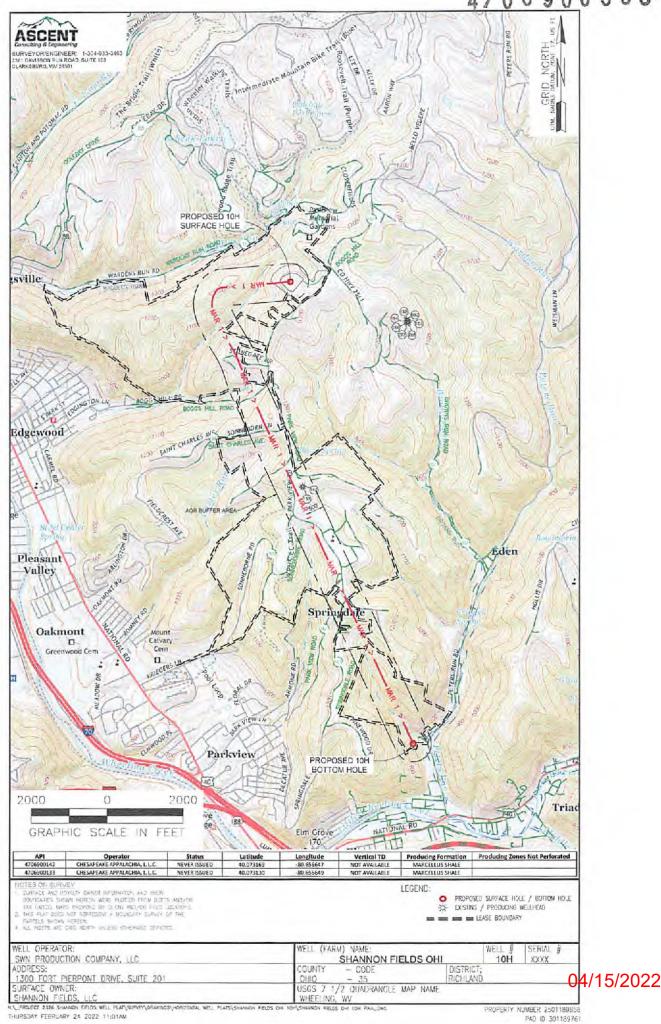
Field Reviewed?

(X) Yes

) No

(

Southwestern Energy*		WVD Seeding	Specification	R2 A
	eed contact Lyndsi Ed	dy Flippo office 570-996-4271 cell 501-26		ys for delivery)
NON-ORGANIC PROPERTIES	- Landard - Contraction		ORGANIC PROPERTIES	
Seed Mixture: ROW Mix	SWM	I Supplied	Seed Mixture: SWN Production Organic I	Vix SWN Supplied
Orchardgrass Timothy Annual Ryegrass Brown Top Millet Red Top Medium Red Clover White Clover Birdsfoot Trefoil Rough Bluegrass Apply @ 100lbs per acre		All legumes are innoculated at 5x normal rate Apply @ 200lbs per acre	Organic Timothy Organic Red or White Clover OR Organic Perennial Ryegrass Organic Red or White Clover Apply @ 100lbs per acre April 16th- Oct. 14th Organic Fertilizer @ 200lbs per Acre	50% 50% 50% Apply @ 200lbs per acre Oct. 15th- April 15th Pelletized Lime @ 2 Tons per Acre
April 16th- Oct. 14th SOIL AMENDMENTS		Oct. 15th- April 15th PLUS os per acre of Winter Wheat	WETLANDS (delineated as jurisdiction Seed Mixture: Wetland Mix	onal wetlands) SWN Supplied
10-20-20 Fertilizer	*	Apply @ 500lbs per Acre	VA Wild Ryegrass	20%
Pelletized Lime		Apply @ 2 Tons per Acre otherwise dictated by soil test results	Annual Ryegrass Fowl Bluegrass	20% 20%
Seeding Calculation Information:			Cosmos 'Sensation'	10%
1452' of 30' ROW/LOD is One Acre 871' of 50' ROW/LOD is One Acre 622' of 70' ROW/LOD is One Acre			Redtop Golden Tickseed Maryland Senna Showy Tickseed	5% 5% 5% 5%
Synopsis:			Fox Sedge	2.5%
	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			2.5% 2.5% 2.5%
Special Considerations:			Apply @ 25lbs per acre	Apply @ 50lbs per acre
Landowner Special Considerations including guidance that is not given here. Discuss the beginning of the project to allow time for sp	se requirements wi	th SWN supervision at the	April 16th- Oct. 14th NO FERTILIZER OR LIME II	Oct. 15th- April 15th NSIDE WETLAND LIMITS



API	Operato	Status	L; titude	Lo igitude	Vertical TD	Procucing Formation	Producing Zones Not Perforated
4706900142	CHESAPEAKE APPAL/ CHIA, L.L.C.	NEVER ISSUED	40 073169	-8(.656647	NOT AVAILABLE	MURCELLUS SHALE	
4706900133	CHESAPEAKE APPAL/ CHIA, L.L.C.	NEVER ISSUED	40 073130	-8(.656649	NOT AVAILABLE	M RCELLUS SHALE	· .

WV Departm^{ent} of Environmental Protection Office of Oil and Gas MAR **1** 1 2022

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MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN



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

API NO. 47-XXX-XXXXX WELL NAME: Shannon Fields OHI 10H Wheeling QUAD Richland DISTRICT Ohio COUNTY, WEST VIRGINIA

Submitted by:

Name: Brittany Woody

Date: 12/14/2021

Date: 1/21/2022

SWN Production Co., LLC

Approved by:

Name

Title: Senior Regulatory Analyst

Title: INSPECT

Approved by:

Name:			
Name.	 _	 _	_

Date: _

Title:

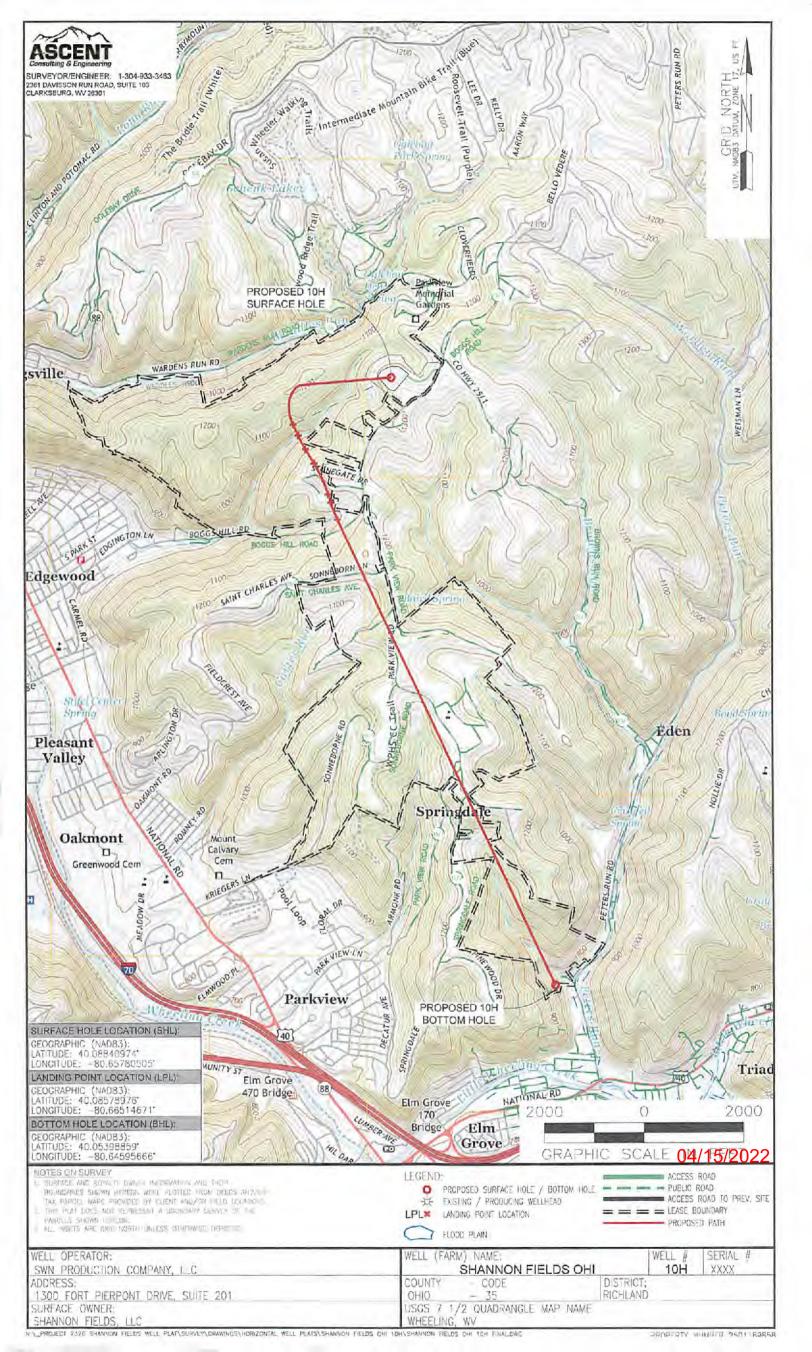
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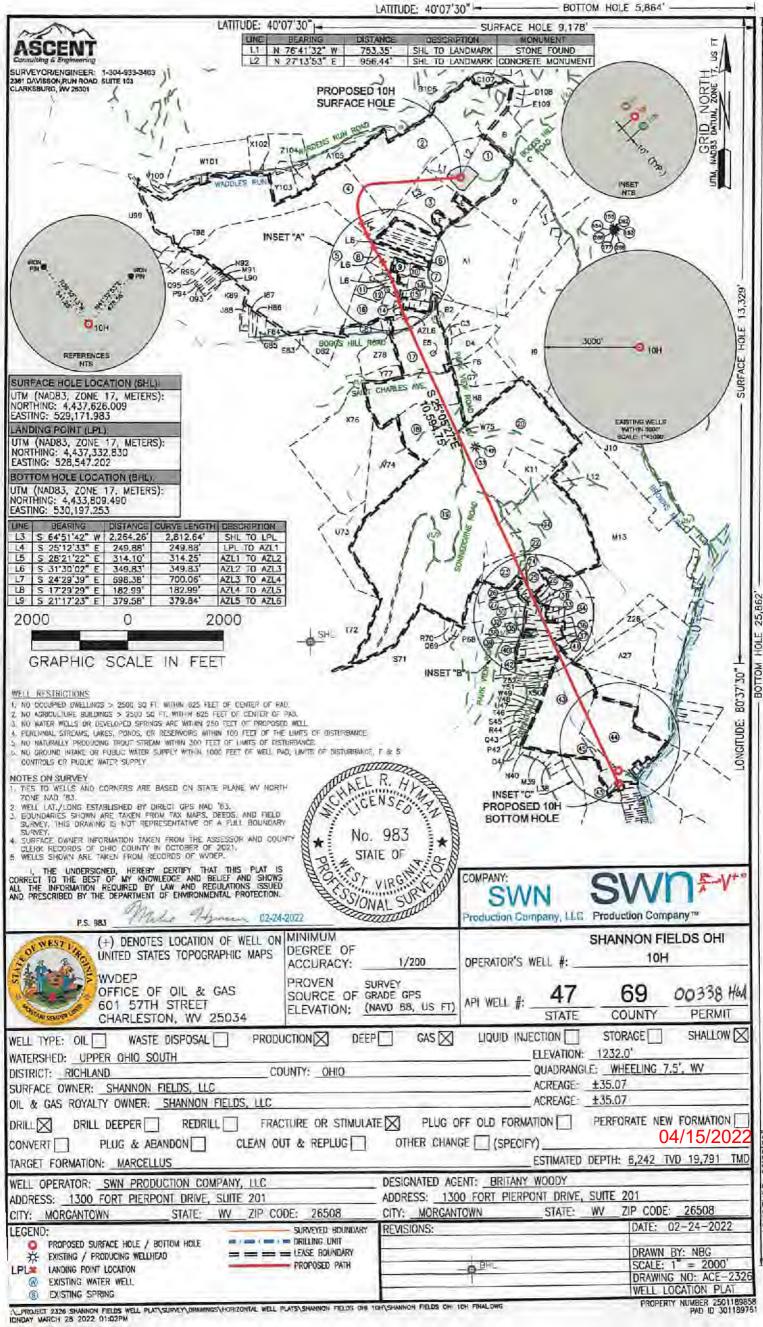
SWN PRODUCTION COMPANY, LLC - CONFIDENTIAL

04/15/2022



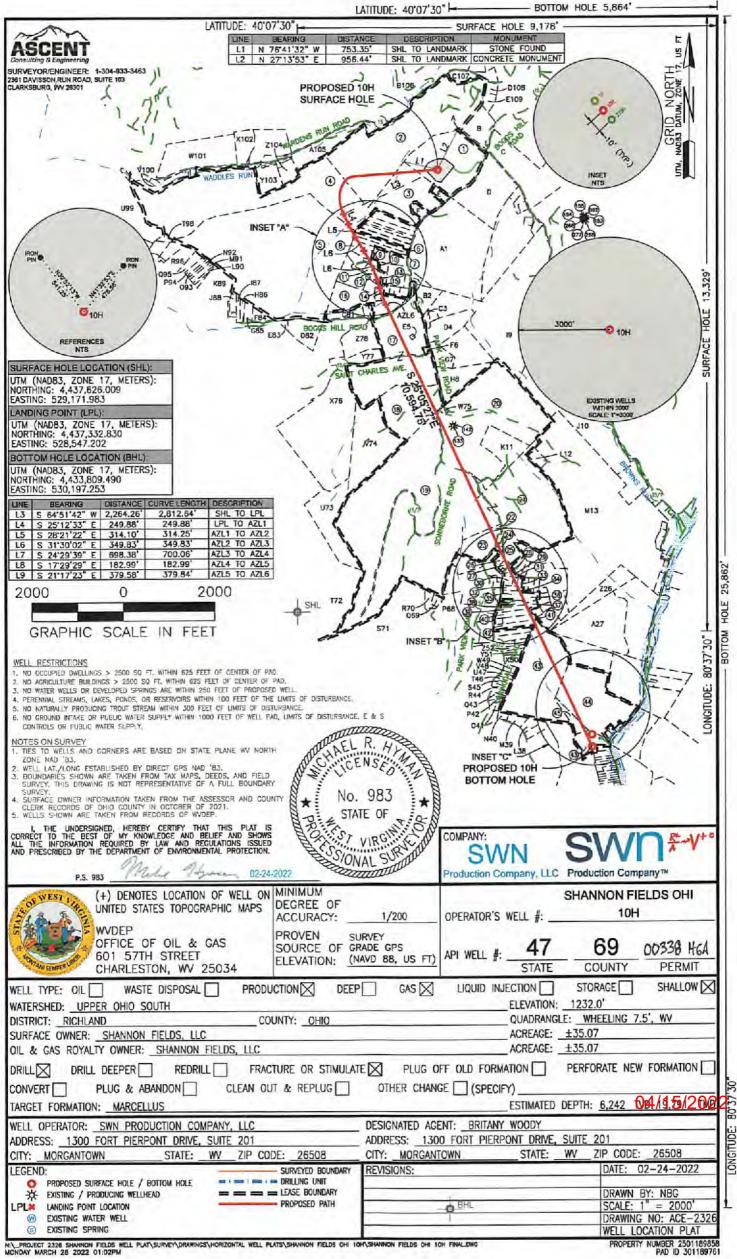
LATTTUDE: 40'07'30"	ATTIUDE: 40'07'30" - BOTTOM HOLE	4,000
ASCENT	ICE DESCRIPTION MONUMENT	E A
Consulting & Engineering SURVEYOR/ENGINEER: 1-304-933-3463 2361 DAVISSON,RUN ROAD, SUITE 103	I AREALY IN	HILE
CLARKSBURG, WV 20301		M. ZONE
XIII - Trans - Loss Marting	No -X X X	GRID N
W101 21044 00 A105	ALL ON CON	ma / z
ANDRES RUN TIOS	10-10-1 M	
U89	A	
15-15-15-15-15-15-15-15-15-15-15-15-15-1		
RON ROBA NB2 PL6		
995 P94 093 K89 187 J88 H85 187		13,329
BIOH GES - X BOOKS HILL IN	A2L5 1	HOLE
000 583/ 082		SURFACE
UTM (NADB3, ZONE 17, METERS):	SURFLES AVE OF BURGE	- SUR
NORTHING: 4,437,626.009 EASTING: 529,171.983		TTANG WELLING
LANDING POINT (LPL) UTM (NAD83, ZONE 17, METERS): NORTHING: 4,437,332,830 EASTING: 528,547.202	1	U.E. 1-3000
BOTTOM HOLE LOCATION (BHL)	M L Gu	to
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,433,809.490 EASTING: 530,197.253	CON MAN	181
LINE BEARING DISTANCE CURVELENGTH DESCRIPTION	() () () () () () () () () ()	- El
L4 S 25'12'33" E 249.68' 249.88' LPL TO AZL1 L5 S 28'21'22" E 314.10' 314.25' AZL1 TO AZL2 L6 S 31'30'02" E 349.83' 349.83' AZL2 TO AZL3	1 hall the hand	a
L7 S 24'29'39" E 698.38' 700.06' AZL3 TO AZL4 LB S 17'29'29" E 182.99' 182.99' AZL4 TO AZL5 L9 S 21'17'23" E 379.58' 379.84' AZL5 TO AZL6		
2000 0 2000 SHL 772		238
GRAPHIC SCALE IN FEET	870 P68 P68 90 P00 P00 P00 P00 P00 P00 P00 P00 P00	
	INSET "B"	.0E.L
WELL RESTRICTIONS 1. NO OCCUPIED DWELLINGS > 2500 50 FT. WITHIN 625 FEET OF CENTER OF PAD. 2. NO AGRICULTURE BUILDINGS > 2500 SC FT. WITHIN 625 FEET OF CENTER OF PAD.	A VIEW OX	
 NO WATER WELLS DR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL PERENNIM, STREAMS, LAKES, PONOS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE. 	R44 043	ONGITUDE
5. NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, CONTROLS 04 PUBLIC WATER SUPPLY. NOTES ON SURVEY	NAD NAD	TONOT TO
T. THES TO WELLS AND CORNERS ARE BASED ON STATE FLANE WY NORTH ZONE MAD '83. 2. WELL TAT /LDNG ESTABLISHED BY DIRECT GPS NAD '83.	NSC PROPOSED 10H	
3. BOUNDARIES SHOWN ARE TAKEN FROM TAX MAPS, DEEDS, AND THELD SURVEY, THIS BRAWING IS NOT REPRESENTATIVE OF A FULL EDUNDARY SURVEY.	983 BOTTOM HOLE	調ト
S. WELLS SHOWN ARE TAKEN FROM RECORDS OF WVDEP.	TE OF	
I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDCE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND REQULATIONS. ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.	VIRGING COMPANY: SIMIN SI	Nn F-V*
P.S. 983 Mache Afran 02-24-2022	AL SUCCEProduction Company, LLC Product	
(+) DENOTES LOCATION OF WELL ON MINIMUM UNITED STATES TOPOGRAPHIC MAPS DEGREE OF		NON FIELDS OHI
ACCURACY:		
OFFICE OF OIL & GAS 601 57TH STREET ELEVATION: (N	ADE GPS	69 00338 HeA
WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP		
WATERSHED: UPPER OHIO SOUTH	ELEVATION: 1232.0) [,]
DISTRICT: <u>RICHLAND</u> COUNTY: <u>OHIO</u> SURFACE OWNER: <u>SHANNON FIELDS, LLC</u>	QUADRANGLE: WHI ACREAGE: ±35.07	
OIL & GAS ROYALTY OWNER: <u>SHANNON FIELDS, LLC</u> DRILL DEEPER REDRILL FRACTURE OR STIMULATI	ACREAGE: ±35.07	The Transfer of the State
CONVERT PLUG & ABANDON CLEAN OUT & REPLUG	OTHER CHANGE (SPECIFY)	04/15/2022
TARGET FORMATION: <u>MARCELLUS</u> WELL OPERATOR: SWN PRODUCTION COMPANY, LLC		6,242 TVD 19,791 TMD
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201	ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 2	01 IP CODE: 26508
LEGEND: SURVEYED BOUNDARY	CITY: <u>MORGANTOWN</u> STATE: <u>WV</u> Z REVISIONS:	DATE: 02-24-2022
PROPOSED SURFACE HOLE / BOTTOM HOLE PROPOSED SURFACE HOLE / BOTTOM HOLE EXISTING / PRODUCING WELLIHEAD PROPOSED PATH	BHL	DRAWN BY: NBC SCALE: 1" = 2000'
EXISTING WATER WELL S EXISTING SPRING		DRAWING NO: ACE-2326 WELL LOCATION PLAT
N/_ PROJECT 2328 SHANNON FIELDS WELL PLAT/SURVEY/DRAWINGS/HORIZONTAL WELL PLATS/SHANNON FIELDS OHI 10: WONDAY MARCH 28 2022 01:02PM	Astannon fields ohi 10hi finalong	PROPERTY NUMBER 2501189858 PAD ID 30118976

LONGITUDF: 80'37'30"



ONGITUDE: 80'37'30"

		MTUDE: 40'07'30"		ОМ HOLE 5,884' — ,	
SCENT	LATITUDE: 40°07'30" - LINE BEARING DISTAN	5' SHL TO LAND	MARK STONE FOUND		E 21
nsulting & Engineering RVEYOR/ENGINEER: 1-304-933-3463	→ 1.2 N 27'13'53" E 956.4	A' SHE TO LAND	CIONARK CONCRETE MONUMEN		
RKSBURG, WV 26301	PROPOSED 10 SURFACE HOL		TO Ecos	0	RID NORI
211	RUN ROAD	Charles -	1 × × ×	×°	RID And
~ 7	W107 Z104WR0EW A105	241	Marker /	io Cha	GRI CHI
4100	The state of	13 10		INSET	UTM.
(199)		12.02	N A		
1 St	-198 INSET "A"L55 @++		7 32		
PRIN PIN PIN	N97 N91 L90		11.2		
service and the Free	4 063 - K89 - 67 J85 - K H88 - 167	A BERNER	-17		002.21
O 10H	HILL ROA	AZ_6		3000' © 10H	L L L L L L L L L L L L L L L L L L L
REFERENCES	GUD E83 CR2 ZI		F6	10H	
M (NADB3 ZONE 17, METERS):	- Sultro	HARLES AVE.	8+8		1
ORTHING: 4,437,626,009 STING: 529,171,983	3 x76	1 2505	8/175_ @ \	EXISTING WELLS WITHIN 3000	1
NDING POINT (LPL): IM (NAD83, ZONE 17, METERS): DRTHING: 4,437,332,830	< 1	1 ST	*	SCALE: 1"-3000"	
STING: 528,547,202 DTTOM HOLE LOCATION (BHL);		174 J	T AN CE	2/2	A.
M (NAD83, ZONE 17, METERS): RTHINC: 4,433,809.490 STING: 530,197 253	S-11	- ®1	a the i	1 2	1
	12.64' SHL TO LPL	12	17 TO	A MIS	No.
5 S 28'21'22" E 314.10' 31	9.88° LFL TO AZL1 4.25° AZL1 TO AZL2 9.83° AZL2 TO AZL3	1 2 Junos	1- BOW	- A	9.91
3 S 17'29'29" E 182.99' 18	0.06' AZL3 TO AZL4 2.99' AZL4 TO AZL5 9.84' AZL5 TO AZL6	4/1	17 C	it in	HAL-
000 0	2000 172			· · · · · · · · · · · · · · · · · · ·	- H
GRAPHIC SCALE IN	0 5	S71 R70 069 C		A27	1
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and the second sec	ALC: CE	NSER	INSET "C" 138 PROPOSED 10H -		1
2 Sector 10 Million Constraints (1997) 2 Sector 10 Mil	AY - HI	983	BOTTOM HOLE		1
The second secon	STAT	E OF THE		-	
I, THE UNDERSIGNED, HEREBY CER- RECT TO THE BEST OF MY KNOWLEDGE THE INFORVATION REQUIRED BY LAW 2 PRESCRIBED BY THE DEFARTMENT OF EI	AND BELIEF AND SHOWS AND REGILIATIONS ISSUED WIRONMENTAL PROTECTION	VIRGING	COMPANY:	SW	REAV
P.S. 983 Mate	1+1-1010N	AL SUITE	Production Company, LL	C Production Com	pany™
OF WEST LAS (+) DENOTES LO	OCATION OF WELL ON MINIMUM			SHANNON FI	
WVDEP	ACCURACY:	1/200 RVEY	OPERATOR'S WELL #	10H	
OFFICE OF OI	REET SOURCE OF GR	ADE GPS ADE 88, US FT)	API WELL #:47	69	00338 HG
L TYPE: OIL WASTE DIS	WV 23034		STATE	COUNTY	PERMIT SHALLOW [
TERSTIED UPPER OHIO SOUTH TRICT:RICHLAND			ELEVATION	:12.32.0'	
RFACE OWNER: SHANNON FIELD & GAS ROYALTY OWNER: SHA	IS, LLC		ACREAGE:	GLE: <u>WHEELING 7</u> = 35.07	.5, WV
	REDRILL FRACTURE OR STIMULATE		ACREAGE:	±35.07 PERFORATE NEW	FORMATION F
VERT PLUG & ABANDO	N CLEAN OUT & REPLUG	OTHER CHANGE		04/	15/2022
IGET FORMATION: <u>MARCELLUS</u>	N COMPANY, LLC	DESIGNATED ACEN	ESTIMATED	DEPTH: 6.242 T	VD 19,791 TX
RESS: 300 FORT PIERPONT D	DRIVE, SUITE 201	ADDRESS- 1300	FORT PIERPONT DRIVE,	and the first of the second	
PROPOSED SURFACE FOLE / EDITION	SURVEYED BOUNDARY	CITY: MORGANTO REVISIONS:	WN STATE:		26508 12-24-2022
EXISTING / PRODUCING WELLHEAD	ELEASE BOUNDARY		200	DRAWN H	
W EXISTING WATER WELL EXISTING SPRING				DRAWING	1" = 2000' NO: ACE 232 CATION PLAT
WARCH 28 2022 D1:D2FM	DRAMINGS HORIZONTAL WELL PLATS SHAMNON FIELDS OHI OHY	SHANNON FELDS OH 10H	FINAL.DWG		NUMBER 25011898 PAD ID 301189



WW-6A1 (5/13) Operator's Well No. SHANNON FIELDS OHI 10H

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
	Se	e Exhibit A		

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 Floodolain 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.

	and the second second	110.	SWN Production Co	Well Onerator:
RPL	Gavin Nadeau,			Ву:
	Landman			Its:
	Dumminum			

Page 1 of 2

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		EXHIDIT - N- Shannoo Fields OHI 1011 Ohio Courty, West Virgida	• • •		
		Attached to and made a pan of the State of West Virginia Oil and Gas Permit Form, WW-6NT by State Form	Carifing L.C., Operator		
#	TMP	LESSOR	LEASER -	ROYALTY	BKAPG
1) 04-0	R17-0023-0002	Mary Canter Topp, married, dealing in her sole and separate property	Chesepcale Appalachia, L.L.C.	17.00%	808/412 805/27
hio County	y, West Virginia.	urrent Mineral Owner) obtained mineral interest by deed dated March 12, 2013 recorded at Book 854 and Page 769 in the Office of Recorders of Mineral Owner is rubject to the original Checapeake Appelachia, L.L.C. lease executed by Mary Caster Topp recorded in the Office of Recorders			
		a at Book 805 and Page 270, in which SWN Production Company, LLC operates thereunder by assignment recorded at Book 883 and Page 415.	SWN Production Company, LLC		883/415
2) 04-0	3R17-0005-0000	Contentions Family Services of West Virginia LLC	Chosepeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	814/586 884/121
3) 04-0	R17-0019-0000	Lisa Beneke Burris, married	Chesapezks Appelachia, L.L.C.	18.00%	811/501
			SWN Production Company, LLC		834/157
		Nada E. Beneke, single	Chesapeake Appalachia, I. L.C. SWN Production Company, LLC	18.00%	811/496 884/157
		George Robert Beneke, single	Chesapeake Appalachia, LL.C.	18.00%	811/407
			SWN Production Company, LLC		884/157
4) 04-0	R17-0006-0001	The Parks System Trust Fund of Wheeling, a perpetual charitable trust	SWN Production Company, LLC	18.00%	978/251
		Wheeling Perk Commission, a Public Corporation and Governmental Subdivision of the City of Wheeling and the City of Wheeling, a Municipal	SWN Production Contract Mac	18.00%	978/248
	00T1-0002-0000 R17-0011-0000	Corporation Harry S. Fisher and Barbara J. Fisher, Husband and Wife	American Petroleum Particité Ordenating 1966		936/90
07 04-0			SWN Production Company, LLC		980:572
7) 04-0	R17-0011-0001	Harry S. Fisher and Barbara J. Fisher, Husband and Wife	American Petroleum Partners Operating, LLC	18.00%	936/90
			SWN Production Company, LLC	18.00%	980/572 844/629
8) 04-0	0010-0001	Dawn M. Lankay, a married woman dealing in her sole and separate property	Chesapeake App2lachia, L.L.C. SWN Production Company, LLC	10.0076	844/629 885/53
9) 06-0	0T2J-0009-0001	Dawn M. Lenkey, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	18.00%	844/629
•			SWN Production Company, LLC		885/53
		Michael J. Baker and Susan P. Baker, s/k/a Susan J. Baker, insband and wife	SWN Production Company, LLC	18.00%	957/381
	0T2J-0018-0000	Kim S. Wiley and Stephanie P. Wiley, hurband and wife	SWN Production Company, LLC Checonitate Accession L.L.C.	16.00%	933/794 836/725
12) 06-0	0T2J-0020-0000	Drew M. Spredling and Kimberly F. Spredling, husband and wife	SWN Production Company, LLC		885/368
13) 06-0	0T2J-0014-0000	Todd Mueller and Kern Muller	Chesapeake Appalachia, L.L.C.	18.00%	841/739
			SWN Production Company, LLC		885/380
		Michael J. Baker and Susan P. Baker, a/k/a Susan J. Baker, husband and wife	SWN Production Company, LLC	18.00%	957/381
	0725-0020-0004	Michael J. Baker and Sasan P. Baker, wire Susan J. Baker, instand and wife Karl J. Varone and Karen A. Pachuta, instand and wife	SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	18.00%	957/381 837/490
16) 06-0	00T2-0003-0000	Kani J. Varone and Karen A. Pachara, misoano and wile	SWN Production Company, LLC	18.00%	855/368
17) 06-0	00T2-0011-0000	Roman Catholic Diverse of Wheeling Cludeston, by Michael J. Bransfield, Bishop	SWN Production Company, LLC	18.00%	937/667
	0072-0013-0000	RCK 2 Group, LLC	SWN Production Company, LLC	18.00%	936/643
		Stephen T. Vogrin and Michelle L. Vogrin, husband and wife	SWN Production Company, LLC	18.00%	936/653
	00T7-0001-0000	The Parks System Trust Fund of Wheeling, a perpetual charitable trust	SWOL Production Company, LLC	18.00%	978/251
20) 06-0	0017-0095-0000	Robert G. Beird, Mantha Jane Cage, Ronald Morris Brird, Parnela S. Keys, Jacquelyn Ann Jacoba, and Margery Ellen Kniner	Chesipeake Appalachia, L.L.C. SWN Production Company, LLC	18.00%	820/268 885/105
21) 10-0	W 56-0002-0000	Ohio County Board of Education	American Petroleum Partners Operating, LLC	18.00%	936/172
.,			SWN Production Company, LLC		973/167
22) 06-0	00T7-0006-0000	Robert J. Letzelier	Chesapeake Appalachia, L.L.C.	14.00%	841/779
		Ale 1 Mindeditor and Langella & Mindeditor Sambard and add	SWN Production Company, LLC	18.00%	885/392 993/601
	0017-0006-0004	Alan J. Hinderliter and Jacquoline S. Hinderläer, husband and with Docald Alfred Braden	SWN Production Company, LLC SWN Production Company, LLC	18.00%	961/322
25) 10-0	W 56-0006-0003	Frances L. Braden, Trustee of the Frances L. Braden 2016 Inevocable Trust, dated August 10, 2016	SWN Production Company, LLC	18.00%	1000/58
26) 06-0	00T7-0006-0002	Timothy J. Binden, married	SWN Production Company LLC	15.00%	966/553
27) 06-0	0017-0044-0000	Frances L. Braden, Trustee of the Frances L. Braden 2016 irrevocable Trust, dated August 10, 2016	SWN Production O	15.00%	967/395
	0017-0065-0001	Frances L. Binden, Trustee of the Frances L. Braden 2016 Inevocable Trust, dated August 10, 2016	SWN Productids Company, LLC	15.00%	967/395
	00T7-0065-0002	Andrew Weisel and Joyce I. Weisel Instand and wife	SWN Production Company, LLC	18.00%	935/492
	0017-0065-0000	Andrew Weisal and Joyce I. Weisal, husband and with Andrew Weisal and Joyce I. Weisal, husband and with	SWN Production Company, LLC SWN Production Company, LLC	18.00%	935/492 935/492
	00T7-0065-0003 00T7-0066-0000	Andrew C. Weiszl, II	SWN Production Company, LLC	18.00%	935/498
	00T7-0067-0024	Frances L. Braden, Trustee of the Frances L. Braden 2016 Intevocable Trust, dated August 10, 2016	SWN Production Company, LLC	15.00%	967/395
		Frances L. Braden, Trustee of the Frances L. Braden 2016 Intevocable Trust, dated August 10, 2016	SWN Production Company, LLC	18.00%	1000/58
	00T7-0072-0000	Ead P. Huffhor	American Petroleum Pariners Operating, LLC	18.00%	939/163
			SWN Production Company, LLC	18.00%	980/572 939/163
36) 06-0	00T7-0072-0002	Sou P. Reiner	American Petroleum Partners Operating, LLC SWN Productional Content LLC	18.00%	939/163
37) 06-0	0017-0075-0001	Michael E. Sovinsky and Susan O. Sovinsky, husband and wife	SWN Priciada Company, LLC	18.00%	933/115
		Charles V. Sovansky, widower	SWN Production Company, LLC	18.00%	942/419
9) 06-0	00T7-0076-0000	Thomas A. Orth	SWN Production Company, LI.C	18.00%	934/694
(0) 06-0	0017-0078-0000	George Franklin Longwell and Mary Ann Longwell, husband and wife	TH Exploration, LLC	18.00%	391/686
			American Patroleum Partners Operating, LLC SWN Production Company, LLC		958/126 980/572
1) 06-0	0077-0081-0000	Robert L. Miller, Jr.	SWN Production Company, LLC	18.00%	936/337
		Richard J. Robrecht and Mickey Robrecht, husband and wife	SWN Production Company, LLC	18.00%	1000/122
		Josephine L. Taggan	Fossil Creek Ohio, LLC	18.00%	877/757
			Gulfport Energy Corporation		893/406
			American Petroleum Partners Openning, LLC		909/775 946/416
		Peters Run Land Company, LLC	SWN Production Company, LLC Forstil Creek Ohio, LLC	18 00*.	873/543
11) 64 0		e voer even man v vanjelij, het v	Gulfort Energy Corporation		893/392
14) 06-0	0017-0119-0000				909/775
14) 96-0	0017-0119-0900		American Petroleum Partners Operating, LLC		
			SWN Production Company, LLC		946/405
		Peters Run Land Company, LLC	SWN Production Company, LLC Fouril Crock Ohio, LLC	18.00%	946/405 873/543
		Peters Run Land Company, LLC	SWN Production Company, LLC	18.00%	946/405



* •;



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

47069003

February 23, 2022

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

RE: SWN's proposed New Well: Shannon Fields OHI 10H in Ohio County, West Virginia, Drilling under Stonegate Drive, Sonneborn Lane, Park View Road, and Springdale Avenue.

.

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 Stonegate Drive, Sonneborn Lane, Park View Road, and Springdale Avenue. 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.

Respectfully,

SWN Production Company, LLC

Gavin Nadeau, RPL Landman



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The Right People doing the Right Things, wisely investing the pash flow from our underlying 7550447 ctcor 2022

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE CERTIFICATION</u>

Date of Notice Certification:

API No. 47- 005

Operator's Well No. Shannon Fields CHI 10H Well Pad Name: Shannon Fields OHI

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	West Virginia	LITMANAD 82	Easting:	529,171.981
County:	069-Ohio	UTM NAD 83	Northing:	4,437,626.008
District:	Richland	Public Road Acc	cess:	Boggs Hill Road (Country Route 15/1)
Quadrangle:	Wheeling	Generally used f	arm name:	Shannon Fields
Watershed:	Upper Ohio South			A second s

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY	OOG OFFICE USE ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY or ■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
■ 2. NOTICE OF ENTRY FOR PLAT SURVEY or □ NO PLAT SURVEY WAS CONDUCTED	RECEIVED
3. NOTICE OF INTENT TO DRILL OF NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED OF	RECEIVED/ NOT REQUIRED
WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
4. NOTICE OF PLANNED OPERATION	RECEIVED
5. PUBLIC NOTICE	RECEIVED
6. NOTICE OF APPLICATION	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:

THEREFORE, I Brittany Woody

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

By:	Brittany Woody		Morgantown, WV 26508
Its:	Senior Regulatory Analyst	Facsimile:	304-884-1690
Telephone:	304-884-1610	Email:	Brittany_Woody@swn.com
	NOTARUS SINABOOTH	Subscribed and swe	orn before me this 14 day of DECEMBER 2022

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)		4706900338 API NO. 47-009 OPERATOR WELL NO. Shannon Fields OHI 10H Well Pad Name: Shannon Fields OHI
DEP	ARTMENT OF ENVIR	STATE OF WEST VIRGINIA RONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION
Notice Time Requirer Date of Notice: 340 Notice of:	ment: notice shall be provi Date Permit Applica	ded no later than the filing date of permit application. tion Filed: 3
PERMIT FOR A WELL WORK		CATE OF APPROVAL FOR THE RUCTION OF AN IMPOUNDMENT OR PIT
Delivery method purs	suant to West Virginia Co	ode § 22-6A-10(b)
PERSONAL SERVICE	REGISTERED MAIL	METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION
certificate of approval for registered mail or by any sediment control plan re- the surface of the tract of oil and gas leasehold be described in the erosion operator or lessee, in the more coal seams; (4) Th- well work, if the surface impoundment or pit as of have a water well, sprin provide water for consu- proposed well work act	or the construction of an imp y method of delivery that re- equired by section seven of to m which the well is or is pro- ing developed by the propo- and sediment control plans is e event the tract of land on v the owners of record of the su- tract is to be used for the p described in section nine of g or water supply source loc mption by humans or dome- ivity is to take place. (c)(1) I	an the filing date of the application, the applicant for a permit for any well work or for a poundment or pit as required by this article shall deliver, by personal service or by quires a receipt or signature confirmation, copies of the application, the erosion and this article, and the well plat to each of the following persons: (1) The owners of record of posed to be located; (2) The owners of record of the surface tract or tracts overlying the sed well work, if the surface tract is to be used for roads or other land disturbance as submitted pirfsuant to subsection (c), section seven of this article; (3) The coal owner, which the well proposed to be drilled is located [sic] is known to be underlain by one or urface tract or tracts overlying the oil and gas leaschold being developed by the proposed lacement, construction, enlargement, alteration, repair, removal or abandonment of any this article; (5) Any surface owner or water purveyor who is known to the applicant to eated within one thousand five hundred feet of the center of the well pad which is used to stic animals; and (6) The operator of any natural gas storage field within which the firmer than three tenants in common or other co-owners of interests described in the service of the applicant to be the operator of any natural gas to append within which the service of the operator of the real or other proposed field within which the firmer than three tenants in common or other co-owners of interests described in the service of the service

subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to.

SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name: SWN Production Co., LLC Attn: Bob Laine	Name: H3, LLC
Address: 1300 Fort Pierpont Dr., Suite 201	Address: 1483 Johns Creek Road
Morgantown, WV 26508	Milton, WV 25541
Name:	COAL OPERATOR
Address:	Name:
	Address:
SURFACE OWNER(s) (Road and/or Other Disturbance)	
Name:	☑ SURFACE OWNER OF WATER WELL
Address:	AND/OR WATER PURVEYOR(s)
	Name: See Attachment
Name:	Address:
Address:	
	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
□ SURFACE OWNER(s) (Impoundments or Pits)	Name:
Name:	Address:
Address:	
	*Please attach additional forms if necessary

WW-6A (8-13)

Well Pad Name: Shannon Fields OHI

Notice is hereby given:

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

This Notice Shall Include:

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

Pursuant to W. Va. Code § 22-6A-10(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.

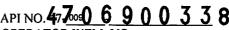
Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.e, 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 firsh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided. whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing rout 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. (c) 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)



OPERATOR WELL NO. Shannon Fields OHI

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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)

APINO. 42 009 0 6 900 3 3 8

OPERATOR WELL NO. Shannon Fields OHI 10H Well Pad Name: Shannon Fields OHI

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-

<u>Permits/Pages/default.aspx</u> 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.

Well Operator: SWN Production Co., LLC	(8-13)	
	Notice is hereby given by:	Mbala
		War 0
	Telephone: 304-884-1610 Email: Brittany_Woody@swn.com	my

API NO 447-00 6-000 3 3 8 OPERATOR WELL NO. Shannon Fields CHII 1H

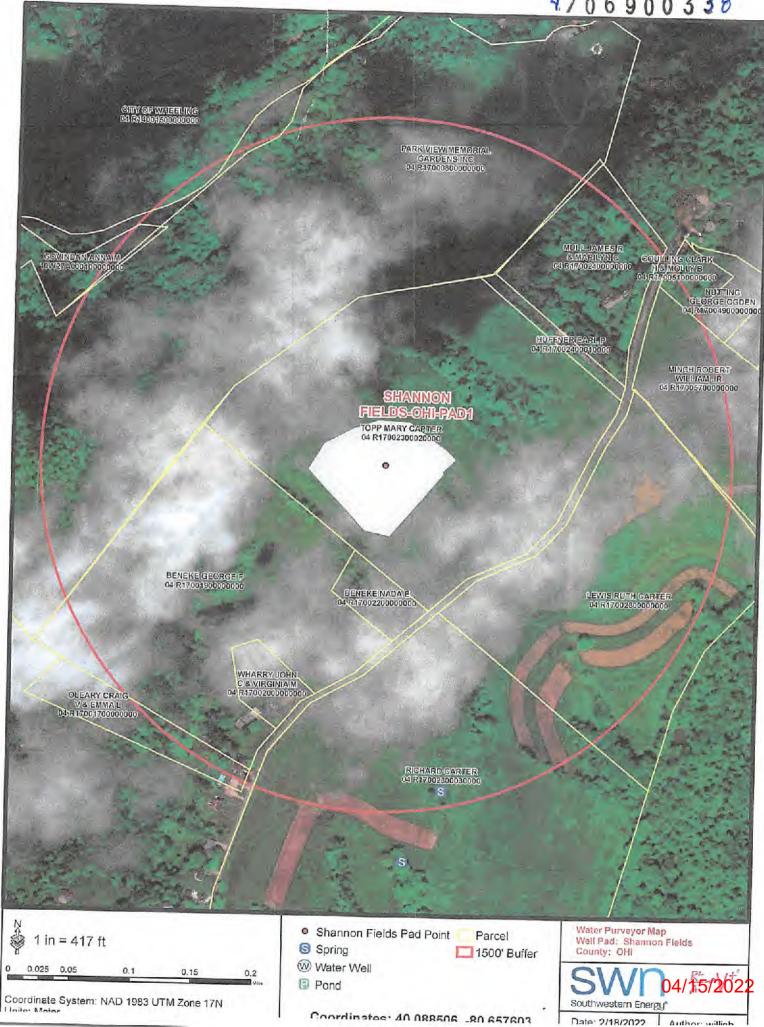
Well Pad Name: Shannon Fields OHI

Address: 13	300 Fort Pierpont Dr, Suite 201	
Morgantown, V	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 <u>depprivacyofficer@wv.gov</u>.

JUSTIN BOOTH Notary Public Official Seal	Subscribed and sworn before me this 12/4 day of December	2021
State of West Virginia My Comm. Expires Mar 1, 2022 749 Richwood Ave Apt. 5 Morgantown WV 26505		ry Public
	My Commission Expires 3/1/2012	



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PARCELOD	OWNER	100211 3 5	Calesconding and succession	
04 R17002300030000	RICHARD CARTER	226 BOGGS HILL RD	WHEELING WV 26003	1

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04/15/2022

(1/12)	-	
	STATE OF WEST VIRGINIA	Scale Services
DEPARTMENT OF EI	VIRONMENTAL PROTECTION, OFFI	CE OF OIL AND GAS
	NOTICE OF ENTRY FOR PLAT SURVEY	
*	i de la companya de l	
Notice Time Requirement: Notice shall entry	be provided at least SEVEN (7) days but no more th	an FORTY-FIVE (45) days prior to
Date of Notice: 10/5/2021 Dat	e of Planned Entry; 10/12/2021	
Delivery method pursuant to West Vin	ginia Code § 22-6A-10a	-
PERSONAL PERSONAL SERVICE MAIL	RED METHOD OF DELIVERY THAT R RECEIPT OR SIGNATURE CONFI	
Pursuant to West Virginia Code § 22-6A	-10(a), Prior to filing a permit application, the operato	or shall provide notice of planned entry

Operator Well No. Shannon Field OH 3

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

Notice is hereby provided to:

WW-6A3

SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name: Shannon Field, LLC	Name: H3, LLC
Address: 10288 Amberwood Court	Address: 1483 Johns Creek Rd
Cincinatti, OH 45241	Milton, WV 25541
Name:	
Address:	MINERAL OWNER(s)
	Name: Shannon Field, LLC
Name:	Address: 10288 Amberwood Court
Address:	Cincinatii, OH 45241
	*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State:	West Virginia	Approx. Latitude & Longitude	40.088496, -80.6567667	
County:	Ohio	Public Road Access	Boggs Hill Road (Country Route	5/1)
District:	Richland	Watershed:	Upper Ohio- Wheeling	
Quadrangle:	Wheeling	Generally used farm name:	Shannon Field	
	And the second			

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

Notice is hereby given by:

Well Operator:	SWN PRODUCTION COMPANY, LLC	Address:	1300 Fort Pierpont Dr , Suite 201	Sec. 11	
Telephone:	304-884-1610		Morgantown, WV 26508	-10	
Email:	Brittany_Woody@swn.com	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 pusiness 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 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application. Date of Notice: 03/09/2022 Date Permit Application Filed:

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

HAND	CERTIFIED MAIL
DELIVERY	RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided*, *however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

/	Name: H3, LLC
	Address: 1483 Johns Creek Rd
3	Milton, West Virginia 25541
	_ /

Notice is hereby given:

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

State:	West Virginia	LITM NIAD 97	Easting:	529,171.981	
County:	Ohio	UTM NAD 83	Northing:	4,437,626.008	
District:	Richland District	Public Road Acc	ess:	Boggs Hill Road	
Quadrangle:	Wheeling	Generally used fa	arm name:	Shannon Fields-OHI	
Watershed:	Upper Ohio South				

This Notice Shall Include:

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

Notice is hereby given by:

SWN Production Company, LLC	Authorized Representative:	Michael Yates
1300 Fort Pierpont Drive, Suite 201	Address:	1300 Fort Pierpont Drive, Suite 201
Morgantown, WV 26508		Morgantown, WV 26508
304-884-1714	Telephone:	304-884-1714
michael_yates@swn.com	Email:	michael_yates@swn.com
	Facsimile:	
	1300 Fort Pierpont Drive, Suite 201 Morgantown, WV 26508 304-884-1714	1300 Fort Pierpont Drive, Suite 201 Address: Morgantown, WV 26508 Telephone: 304-884-1714 Telephone: michael_yates@swn.com Email:

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 <u>deprivacyofficer@wv.gov</u>.



STATE OF WEST VIRGINIA 4706900338 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 03/09/2022 Date Permit Application Filed:

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

CERTIFIED MAIL	HAND
RETURN RECEIPT REQUESTED	DELIVERY

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

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: SWN Production Co., LLC - Attn: Bob Laine	Name: H3, LLC
Address: 1300 Fort Pierpont Dr., Suite 201	Address: 1483 Johns Creek Rd
Morgantown, WV 26508	Milton, WV 25541

Notice is hereby given:

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

State:	West Virginia	UTM NAD 83	Easting:	529,171.981	
County:	Dhio	UTMINAD 83	Northing:	4,437,626.008	
District:	Richland District	Public Road Acce	ess:	Boggs Hill Road	
Quadrangle:	Wheeling	Generally used fa	Generally used farm name:		
Watershed:	Upper Ohio South				

This Notice Shall Include:

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

Well Operator:	SWN Production Company, LLC	Address:	1300 Fort Pierpont Drive, Suite 201	
Telephone:	304-884-1714		Morgantown, WV 26508	
Email:	mlchael_yates@swn.com	Facsimile:		

Oil and Gas Privacy Notice:

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



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

D. Alan Reed, P.E. State Highway Engineer Jimmy Wriston, P. E. Secretary of Transportation Commissioner of Highways

March 10, 2022

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

Subject: DOH Permit for the Shannon Fields Pad, Ohio County Shannon Fields OHI 10H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2022-0043 which has been issued to Southwestern Energy for access to the State Road for a well site located off Ohio County Route 15/1 SLS-MP 3.41.

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

Very Truly Yours,

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

Cc: Brittany Woody Southwestern Energy CH, OM, D-6 File Attachment VI Frac Additives

4706900338

Product Name	Product Use	Chemical Name	690(CAS Number
-303 (U.S. Well Services)	Mixture	Ethylene glycol	107-21 1
		Cinnamaldehyde	104-55 2
		Butyl cellosolve	111-76 2
		Formic acid	54-13.6
		Polyether	Proprietary
		Acetophenone, thiourea, formaldehyde polymer	68527-49 1
PONE (U.S. Well Services)	Breaker	Ammonium persulfate	7727-54-0
actron K-139 (Champion Technologies)	Biocide	Giutaraldehyde	111-30-8
			111 00 0
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides Ethanol	68424-85-1
ictron K-219 (Champion Technologies)	Biocide	Methanol	64-17-5 67-56-1
- La Line		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
arboNRT	Tracer	Ceramic Proppant	65402-68-4
6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate	Proprietary
		Ethylene Glycol	107-21-1
6734A (Champion Technologies)	Blocide	Hydrogen Peroxide	7722-84-1
		Acetic Acid	54-19-7
		Peroxyacetic Acid	79-21-0
ono-CI200 (SWN Well Services)	Corrosion inhibitor	Methanol	67-56-1
		Oxyalkylated fatty acid	58951-67-7
		Fatty acids	61790-12-3
		Modified thiourea polymer	68527-49-1
	in the second	Water	7732-18-5
		Hydrochloric acid	7647-01-0
		Potassium acetate	127-08-2
		Formaldehyde	50-00-0
opol-FEAC (SWN Well Services)	Iron Control	Acetic Acid	64-19-7
		Citric Acid	77-92-9
		Water	7732-18-5
P-S1176-15 (Halliburton)	Friction Reducer	Polyacylate	Proprietary
		Hydrotreated light petroleum distillate	54742-47-8
DJET DR900 LPP (SWN Well Services)	Friction Reducer	Distillates (petroleum) hydrotreated light	54674-47-8
		Ethylene Glycol	107-21-1
		Alcohols, C12-16, Exoxylated propoxylated	68213-24-1
		Fatty Alcohols ethoxylated	Proprietary
		Water	7732-18-5
OJET DRP 1130X (SWN Well Services)	Friction Reducer	Proprietary	Proprietary
-76 (Halliburton)	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
	(netroit no de oct	Inorganic Salt	Proprietary
PTRON T-390 (Champion Technologies)	Scale Inhibitor	Methanol	
There is a ferral plan real biogres	Scale introlicit	Nonyiphenol Ethoxylate	67-56-1 Proprietary
N-150E (Halliburton)	Corrosion Inhibitor	No hazardous substance	
L (SWN Well Services)	Hydrocholic Acid		N/A
Le (Stald Wen Selaices)	Hydrocholic Acid	Hydrochloric Acid Water	7647-01-0
CEAC (Us Whereas)	man for the billing of		7732-18-5
-65 MC (Halliburton)	Scale Inhibitor	Organic phosphonate	Proprietary
		Ammonium Chloride	12125-02-9
TI-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	64742-47-8
xslick 930	Friction Reducer	Copolymer of 2-propenamide	Proprietary
		Hydrotreated Distillate	64742-47-8
		Sodium Chloride	7647-14-5
		Alcohols, C12-16, Exoxylated	68551-12-2
		Oleic Acid Diethanolamide	93-83-4
		Ammonium Chloride	12125-02-9
exslick 953	Friction Reducer	Petroleum Distiliate	64742-47-8
		Sodium Chloride	7647-14-5
		Ammonium Chloride	12125-02-9
		N,N-bis (2-hydroxyethyl) oleamide	93-83-4
exslick 957	Friction Reducer	Petroleum Distillate	64742-47-8
		Ammonium Chloride	12125-02-9
		Oleic Acid Diethanolamide	93-83-4
		Alcohols, C12-16, Exoxylated	68551-12-2
		Water	7732-15-5
FRA-2000 (U.S. Well Services)	Anionic Friction Reducer	Hydrotreated light distillate (petroleum)	64742-47-8
	The second s	Propenoic acid, polymer with propenamide	9003-05 9
exaid 655 NM	Scale Inhibitor	Diethylenetriamine penta (methylene phosphonic acid)	
exslick 922	no data available	Copolymer of 2-propenaminde	15827-30-8
	the same evenable	Distillates (petroleum), hydotreated light	69418-26-4
		Ammonium chloride ((NH4)CI)	64742-47-8
		Oleic Acid Diethnolamide	12125-02-9
cide PSSOA	Biocidal product	Tetrakis (hydroxymethyl) phosphonium sulphate	93-83-4
	and an product		55566-30-8
		Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate	
0-2950	Friction Reducer	groups	397256-50-7
	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
		Ethoxylated alcohol	Proprietary
		Poly (oxy-1.2-ethanediyl) alphatridecylomegahydroxy-, branched	69011-36-5
egend LD-7750W	Scale Control	Methanol	67-56-1
		Phosphonic Acid Salt	Proprietary
C MX 8-4743	Specialty Product	Sodium Nitrate	7631-99-404

1 DOVER	SOUTHWESTERN PROD	RUCTION COMPANY, L	LC		PROJECT LOCATIO
2 GENERAL NOTES 3 EVACUATION PLAN WITHOUT USES MAP 4 EVACUATION PLAN WITH USES MAP					JARSAN
5 EXISTING CONDITIONS 6 DORELOLE LOCATIONS 7 OVERALL GRADING & FSC PLAY		FIELDS PAD	LOCAL EMERGENCY SI		AGREAT
a GEOMETRICLAYOUT PLAN APPTROVED	OHIO CO	UNTY, WV	AMBLU ANCE 5	3MRER 11 04) 243 - 3000	(REEYY
14 WELL PAD SUBGRADE PLAN	FEBRUA	ARY 2022	POLICE DEPARTMENT 9	11 10 00 222 1222	NAX DE
16-20 WELL PAD CROSS SECTIONS					LOCATION MAP NOT TO SCALE
23-39 DETAILS 40-46 CEDTECH DESIGN & DETAILS			ADCRES RDAG ENTRANCE LATITUDE: 40 09388/5 N LONGITUDE: 00.654274 W	a subsection of the	
47-49 BORING LOGS 50 HAUL ROUTE	/ senore diaker	SEA IN	LATITUDE: 40.088865 N LONGITUDE: 00.654274 W LATITUDE: 40.0810.991 N LONGITUDE: 00.3915.391 NORITHING: 580806.7090 EASTING: 1645552.311	W (DEGREES'MINUTES' SECONDS')	4
	THE	30 Contra	NORTHIND: 4437672.033 EASTING: \$29172.799	(JTM ZONE 17, METERS)	2 3/82022 WVDEP CONVENTS ADDR 1 3/1/2922 ADDR/DUM #1
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		N MASKE	NORTHING: 550577.3662 EASTING: 1644601.275 NORTHING: 4437635.659 EASTING: 520183.776	9 (WV SP 83, FEET) (UTM ZONE 17, METERS)	CIA/r
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SOLITOE KEY Y DEEP (INCLUDES EKGAVATION, PIPE, STONE, FARRIC, & COLLECTION DRAINS)- (STONE RY SWN) UF 2; Solitoe Key y deep (includes ekgavation, Pipe, Stone, Kardic, & Collection drains)- (Stone Ry Swn) UF 3	No Wodding of		PROPERTY# PROPERTY OWNER 35-54-6817-0023-0002 SHANNON FIELDS, LLC	20.54	Southwestern Ene
ИТЕЛЬКОМТ ТОК КЕЧАЛОЧКОК В. 1220 (UNCLUSUS DEALVARON, PIE, STONE, BYARNE) – (STONE, BYARN) ЦЕ Ц. Wellpad.coma.nmeni Nexm Це Scome Camacane (Incluses Hartiscon) Ас 7	750 Jun 2014 81	a te			SPAL
1.5" CRUSHER KUN UMESTONE FOR WELL PAD (H ¹¹ - (PLACEMENT CMUY, STONE IS PURCHASED AND CELIVEED BY SWN) TN 4. AASHTO NO. 1 STONE - (PLACEMENT CMUY, STONE IS PURCHASED AND DELIVEED BY SWN) TH 5.	20	Q N	TOTAL DISTURBED AREA: 2	0.94 ACRES	STA
IRK CEMENT STABILIZATION FOR WELL PAD (12") SY 22 2" OF 125 MIA WEAR NG COURSE ASPHALT TH 3	140 80 20	KENTENTI	BOAD DISTURBED AREA: 3.94 AO PAO DISTURBED AREA: 37.00 AO	HEB	
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31 TURN RIGHT ONTO CHEAT RD, 03 MALES 41 TURN LEFT TO MERSE ONTO 168 W TOWARD 179/85 MILES 51 MERGEONTO HIS W, 63 MILES	MORGANTOWN, WY 28508 PHONE: (304) 884 - 1671 EMAIL, JOHN, DUBOWSKIR SWN COM	PHONE. (304) 933 - 3463. EMAIL, ZACHBASCENTCONSULTINGENGINEERS COM	WELL HEAD LAY	CULT	PROJECT NUMBER 2326
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		ZONE, IN U.S. SURVEY FEET. UT& ITY CONTACT INFORMATION ALEXANDER SCHRAMM		YOU DIG!	SWN PRODUCTION COMPANY SHANNON FIELDS PAD
		ENGINEER MORTHERN OPERATIONS MOUNTAINEER GAS COMPANY		MISS UTILITY OF WEST VIRGINA	TRIADELPHIA OHIO COUNTY, WV
		P.C. BOX 6232, WHEELING, WY 28000 1.688-420-4427 EMAIL ALEXSCHRAMMON/SCWY CCM		MISS UTILITY OF WEST VIRONIA 8-800-245-4040 WEST VIRONIA STATE LEW (SECTION XV, CHAPTER 24-C)	TOTAL COVER SHEET
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