

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

Wednesday, September 7, 2022 WELL WORK PERMIT Horizontal 6A / New Drill

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

Re: Permit approval for ROTH 6H 47-069-00349-00-00

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.

mes A. Martin Chief

Operator's Well Number: Farm Name: U.S. WELL NUMBER: Horizontal 6A Date Issued: 9/7/2022

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 more effect as law. Relime to adhere to the specified namit

CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this parmit, you are hereby being adviced to consult with USACE regarding this proposed
- 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-Sa (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
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture contant 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 list shall be tested for compaction, with a minimum of two tests per list per acre of fill. All test
- 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 walls 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 Eureau for Public Health set forth in its Legislative rule emittled 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 demestic 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
- 7. 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
- 9. If any explosion or other accident causing loss of life or cerious 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 suplation or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and communing process, in the event coment does not return to the surface, the oil and gas

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the datas of each of the following within 30 days of their occurrences: completion of construction of the well pad, commencement of drilling, eccession of drilling, completion of any other paralited well work, and completion of the well. Such notice shall be provided by completing an email to DEFCOGNotify@wv.gov.

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706900349

API Number

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4706900349 API NO. 47-009

WW-6B (04/15)

OPERATOR WELL NO. Roth OHI 6H Well Pad Name: Roth OHI

1

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

1) Well Operate	or: SWN Produ	uction Co., L	LC 494	512924	069-Ohio	005-Rich	641-Tiltonsville
	····		Ope	erator ID	County	District	Quadrangle
2) Operator's V	Vell Number: Ro	oth OHI 6H	1	Well Pa	d Name: Rot	th OHI	
3) Farm Name/	Surface Owner:	Roth Farms	LLC	Public Ro	ad Access: C	learview Ave	enue
4) Elevation, cu	irrent ground:	1004.0	Elevatio	n, proposed	l post-constru	ction: 1010'	,
5) Well Type	(a) Gas <u>x</u> Other	Oi		Uno	lerground Sto	rage	
	(b)If Gas Sha	allow X		Deep			
	Ho	rizontal X			·		
6) Existing Pad	: Yes or No No	~					
	rget Formation(s Marcellus, Down-Dip We		+				Associated Pressure- 3775
8) Proposed To	tal Vertical Dept	th: 5797' -					
	t Total Vertical D	and a second	ellus <				
10) Proposed T	otal Measured D	epth: 2661	9' /			RECEIVI	Ð
	Iorizontal Leg Le		9.53			Office of Oil a	ind Gas
	te Fresh Water S		452'	/		AUG - 5	2022
					60 00012	WV Depart Environmenta	ment of Protection
	Determine Fresh			y well 47-0	A REAL PROPERTY OF THE	Environmenta	110.
	te Saltwater Dep	C.C. Salar	eponed in	nearby we	115		
5) Approxima	te Coal Seam De	pths: 170				1.1.1	
Approxima	te Depth to Poss	ible Void (co	al mine, ka	urst, other):	Possible Vo	id 170.	
	osed well location ing or adjacent to			Yes X	1	No	
(a) If Yes, pro	ovide Mine Info:	Name: V	alley Car	np NO 1			
	N. 1977 (1989) (1987)		70 & 811				
			Pittsburgh	1			
		-	alley Car	np Coal			
Gents	7-28-22						

706900349 API NO. 47- 009

OPERATOR WELL NO. Roth OHI 6H

Well Pad Name: Roth OHI

WW-6B

(04/15)

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	<u>New</u> <u>or</u> <u>Used</u>	<u>Grade</u>	<u>Weight per ft.</u> (<u>lb/ft)</u>	<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#	505'	505'	490 sx/CTS
Coal	See	Surface	Casing		1		
Intermediate	9 5/8"	New	J-55	36#	1706'	1706'	752 sx/CTS <
Production	5 1/2"	New	P-110 HP	20#	26619'	26619'	Tall 3777sx/ 100' Inside Intermediate
Tubing							
Liners							

ТҮРЕ	Size (in)	<u>Wellbore</u> <u>Diameter (in)</u>	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (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			1.0	
Intermediate	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/40% Excess
Production	5 1/2"	8 3/4"-8 1/2"	0.361	14360	10500	Class A	1.19/5% Excess
Tubing							
Liners							

PACKERS

Kind:		
Sizes:		
Depths Set:		

Strad men wer -

Page @9/09/2022

Well Pad Name: Roth OHI

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

ulate 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- 12,500 psi @ 100 barrels a minute.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 24.35

22) Area to be disturbed for well pad only, less access road (acres): 10.46

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:

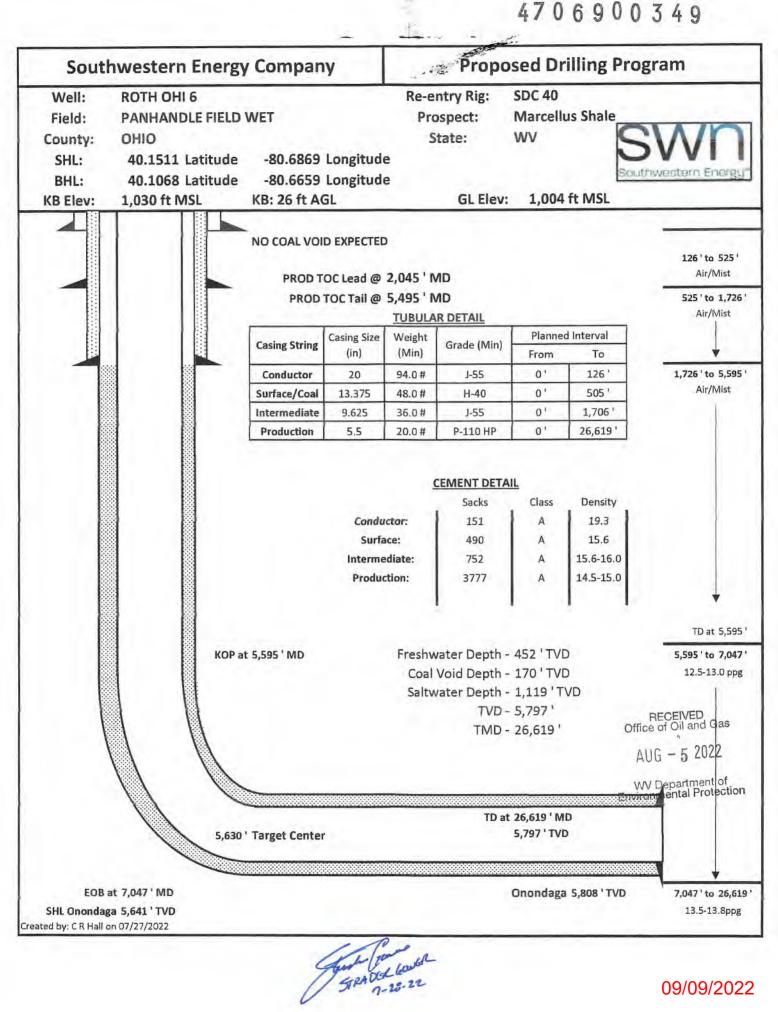
All boreholes will be conditioned with circulation and rotation for a minimum of one bottoms up and continuing until operator is satisfied with borehole conditions.

			CEMENT	ADDITIVES		
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	CJE00	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	\bowtie	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
INTERMEDIATE	>	INTEGRA SEAL	C1600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
	CemNet	\ge	\ge	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
	>	$>\!\!<$	CJ111	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
	$\boldsymbol{\succ}$	SS-11W	CJ880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	D047	FP 28L	\times	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	\succ	\succ	CJX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
1 1	\geq	$\boldsymbol{\times}$	CJ540	HP FLUID LOSS ADDITIVE	ALIPHATIC AMIDE POLYMER	PROPRIETARY
PRODUCTION	D255	$\boldsymbol{\times}$	\times	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETARY
	>	\searrow	CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
	>	FL-66	CJ501	LOW TEMP FLUID LOSS ADD	POWDERED POLYSACCHARIDE	PROPRIETARY
	>>	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	\times	VISCOSIFIER/ANTI- SETTLING AGENT	REFINED POLYMER/ CHRYSTALLINE SILICA	PROPRIETARY
	D198	R-3		CEMENT RETARDER	LIGNIN	8068-51-6
	SUGAR	SUGAR	CJ795	CEMENT RETARDER	SUCROSE	57-50-1

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WV Department of Environmental Protection



09/09/2022

W	W-9
(4,	(16)

WW-9 (4/16) API Number 4'	7 069 -
	or's Well No. Roth OHI 6H
STATE OF WEST VIRGINIA	
DEPARTMENT OF ENVIRONMENTAL PROT	TECTION
OFFICE OF OIL AND GAS	
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATI	ON PLAN
Operator Name SWN Production Co., LLC OP	Code 494512924
Watershed (HUC 10) Upper Ohio- Wheeling Quadrangle Tilton	sville
Do you anticipate using more than 5,000 bbls of water to complete the proposed well we Will a pit be used? Yes No	ork? Yes 🖌 No
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes No 🖌 If so, wh	nat ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	
Underground Injection (UIC Permit Number Various Approv	ed 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	
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	
-If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base	Office
Additives to be used in drilling medium? Attachment 3B	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill	AUG - 5 2022
-If left in pit and plan to solidify what medium will be used? (cement, lime, sa	hou i V lion
-Landfill or offsite name/permit number? Meadowfill SWF-1032, Short Creek SWF-1034, Apex Sanitary Landfill Ub-U8438, Brooke Co SVVF-1013,	Carbon Limestone MSWL018781, Wetzel County 1021
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cu	ittings or associated waste rejected at any
West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection of the state of	

where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

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

Company Official Signature Dittani Woody Company Official (Typed Name) Brittany Woody		I TANK
Company Official Title Senior Regulatory Analyst		Simpson A
Subscribed and sworn before me this 28 day of July	, 20 <u>72</u>	JEANETTE M Notary Public State of We Comm. Expir
My commission expires 10/01/2024	Notary Public	GUTTLIEF Official See st Virginia es Oct 1, 20 burg WV 20

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.

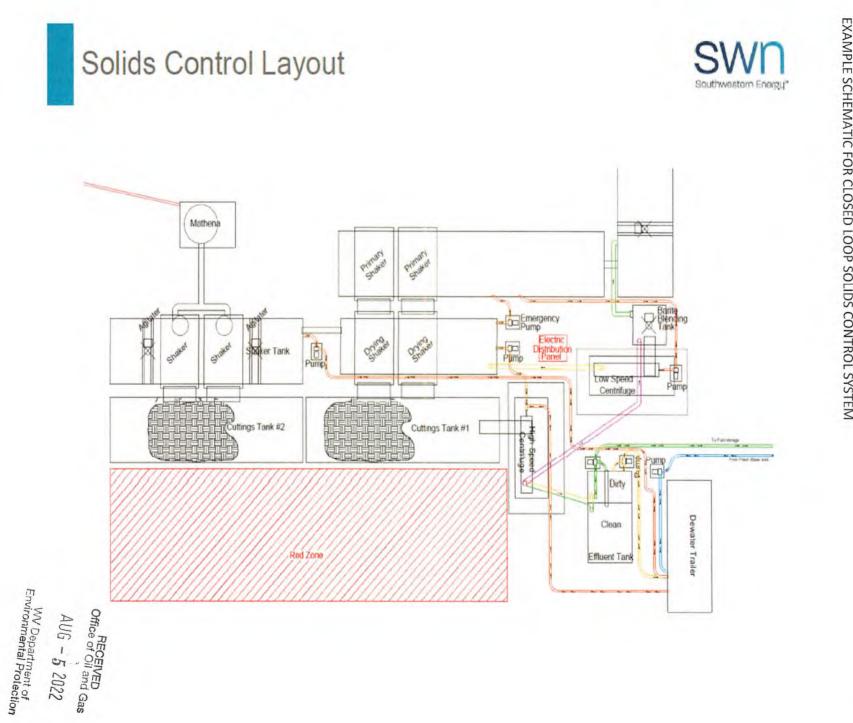
LIQUIDS DRILLING (FRESHWATER, BRINE, SOBM)

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

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WV Department of Environmental Protection

Operator's Well No. Roth OHI 6H

SWN Production Co., LLC

Proposed Revegetation Treatment: Acres Distu	rbed 24.35	Prevegetation pH	I
Limeas determined by pH test min.2 Tons/acre or 1	to correct to pH 10.46		
Fertilizer type 10-20-20			
Fertilizer amount 600/500	Ibs/acre		
MulchHay/Straw	Tons/acre		
	Seed Mixtures		
Temporary		Perma	nent
Seed Type Ibs/acre Attachment 3C		Seed Type	lbs/acre
laps(s) of road, location, pit and proposed area rovided). If water from the pit will be land app creage, of the land application area. notocopied section of involved 7.5' topographi	lied, include dimensions (L x	$\widetilde{W} \ge D$ of the pit, and	dimensions (L x W), and area in
an Approved by:			
omments:			
			Office of Oil and G
			AUG - 5 2022
			WV Department of
itle: Oil & Gas Inspector			WV Department of Environmental Protect
	Date:		WV Department of Environmental Protect
ield Reviewed? () Yes	() No		WV Department o Environmental Protec
ield Reviewed? () Yes			WV Department o Environmental Protec

9/09/2022

Attachment 3C

To Order S	eed contact Lyndsi Ed	dy Flippo office 570-996-4271 cell 501-26	9-5451 lyndsi_eddy@swn.com (please allow 7 to 10 day	/s for delivery)
NON-ORGANIC PROPERTIES			ORGANIC PROPERTIES	
Seed Mixture: ROW Mix	SWM	I Supplied	Seed Mixture: SWN Production Organic N	Aix SWN Supplied
Orchardgrass	40%		Organic Timothy	50%
Timothy	15%		Organic Red or White Clover	50%
Annual Ryegrass	15%		OR	
Brown Top Millet	5%		Organic Perennial Ryegrass	50%
Red Top	5%		Organic Red or White Clover	50%
Medium Red Clover	5%	All legumes are	Apply @ 100lbs per acre	Apply @ 200lbs per acre
White Clover	5%	innoculated at 5x normal	April 16th- Oct. 14th	Oct. 15th- April 15th
Birdsfoot Trefoil	5%	rate		
Rough Bluegrass	5%		Organic Fertilizer @ 200lbs per Acre	Pelletized Lime @ 2 Tons per Acr
Apply @ 100lbs per acre		Apply @ 200lbs per acre		
April 16th- Oct. 14th		Oct. 15th- April 15th PLUS		
	501	os per acre of Winter Wheat	WETLANDS (delineated as jurisdiction	
SOIL AMENDMENTS			Seed Mixture: Wetland Mix	SWN Supplied
10-20-20 Fertilizer		Apply @ 500lbs per Acre	VA Wild Ryegrass	20%
Pelletized Lime		Apply @ 2 Tons per Acre	Annual Ryegrass	20%
	*unless (otherwise dictated by soil test results	Fowl Bluegrass	20%
Seeding Calculation Information:			Cosmos 'Sensation'	10%
1452' of 30' ROW/LOD is One Acre			Redtop	5%
871' of 50' ROW/LOD is One Acre 622' of 70' ROW/LOD is One Acre			Golden Tickseed	5%
SEE OF TO ROW/LOD IS ONE ALLE			Maryland Senna	5%
			Showy Tickseed	5%
Synapsis;			Fox Sedge	2.5%
Every 622 linear feet in a 70' ROW/LOD,			Soft Rush	2.5%
bags of fertilizer and (80) 50lb bags of Li Wheat/ac).	ime (2x seed in wi	nter months + 501b Winter	Woolgrass	2.5%
Special Considerations:			Swamp Verbena	2.5%
Special Considerations: Landowner Special Considerations including	CREP program par	ticipants require additional	Apply @ 25lbs per acre April 16th- Oct. 14th	Apply @ 50lbs per acre
guidance that is not given here. Discuss the			<u>š</u>	Oct. 15th- April 15th
beginning of the project to allow time for sp			NO FERTILIZER OR LIME II	NSIDE WETLAND LIMITS
		Protection	RECEIVED fice of Oil and Gas	
		<u>.</u>	TECEIVED of Oliginal G	Rev. 5/22/2018



7 0 6 9 0 0 3 4 9 SWN Production Company, LCC 1300 Fort Pierpont Dr, Ste 201 Morgantown, WV 26508 Tel: 304 884 1610 Fax: 304 471 2497 WWW.SWN.com

July 18, 2022

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

RE: Proposed New Well: Roth OHI 6H

Dear Mr. Brewer

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

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

Thank you.

Sincerely,

Buttany Moder

Brittany Woody Senior Regulatory Analyst Southwestern Energy Production Company, LLC

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AUG - 5 2022

WV Department of Environmental Protection

The Right Peorle Opt Stor Right Pros. wisely investing the cash flow from our underlying Assets, will create Value+®





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: Roth OHI 6H **Tiltonsville QUAD Richland DISTRICT Ohio COUNTY, WEST VIRGINIA**

Submitted by:

Name: Brittany Woody Brittany Woody

Date: 7/18/2022

Title: Senior Regulatory Analyst

SWN Production Co., LLC

Approved by:

Name: Thurst Gran Date: 7-28-22

Title: 0:1+ GAS Insector

Approved by:

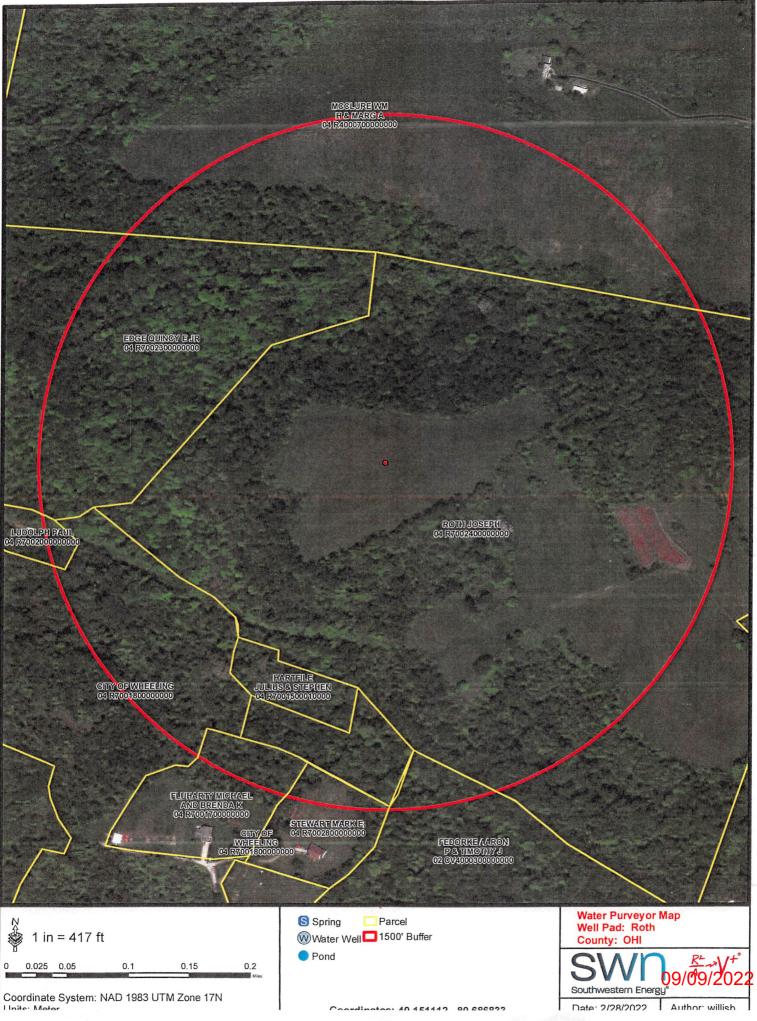
Name: Date:

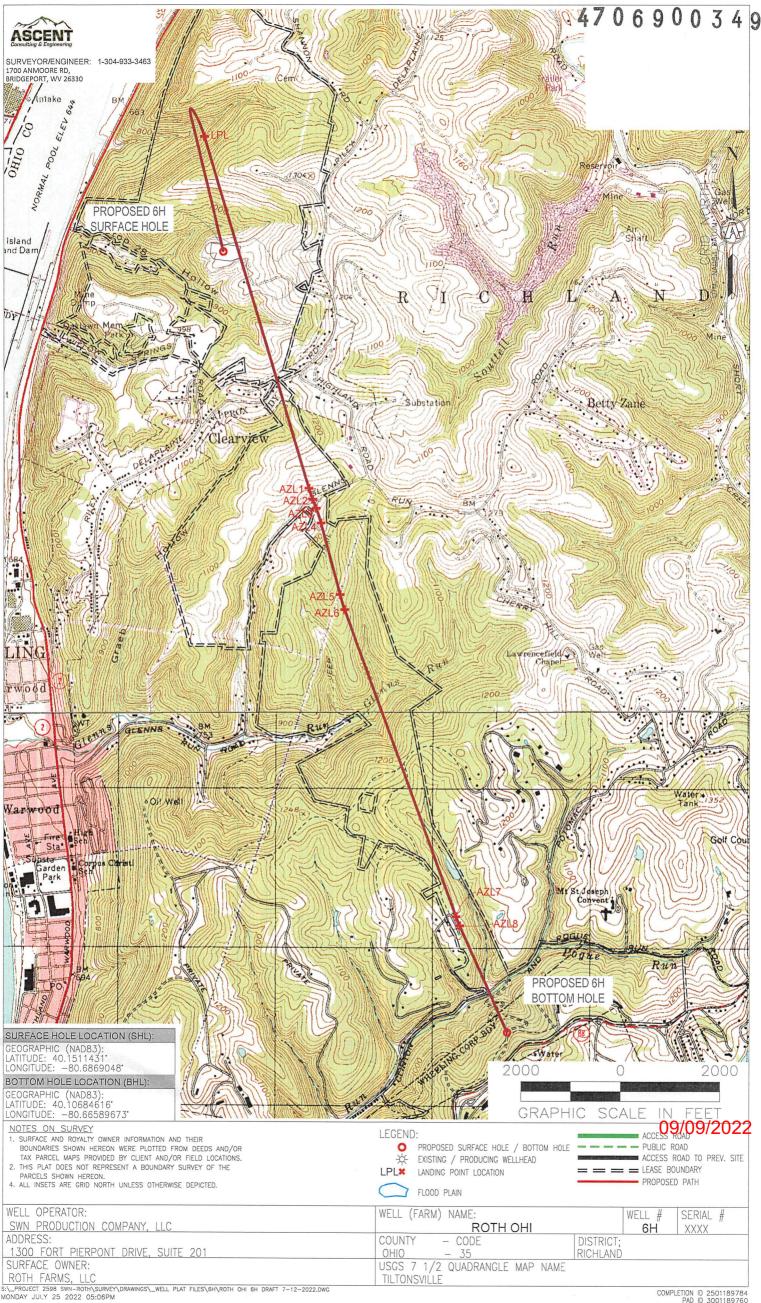
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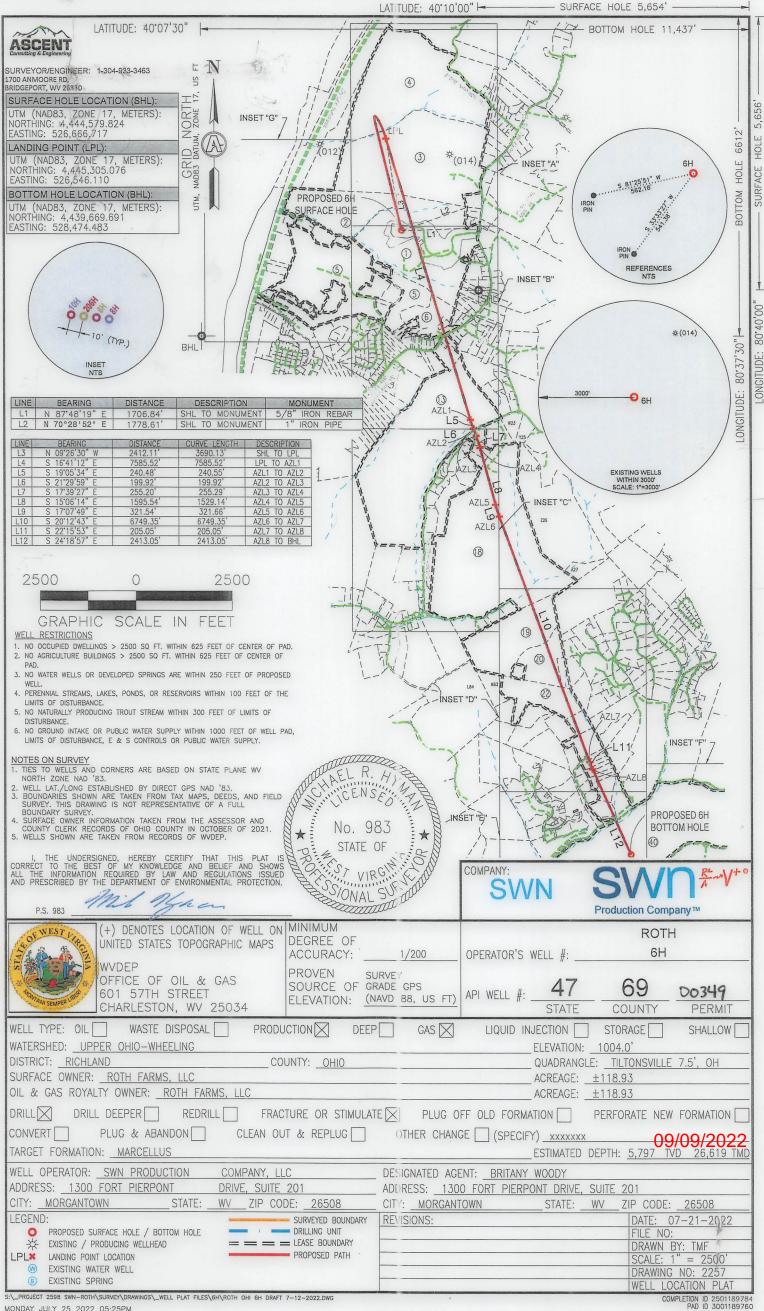
SWN PRODUCTION COMPANY, LLC - CONFIDENTIAL

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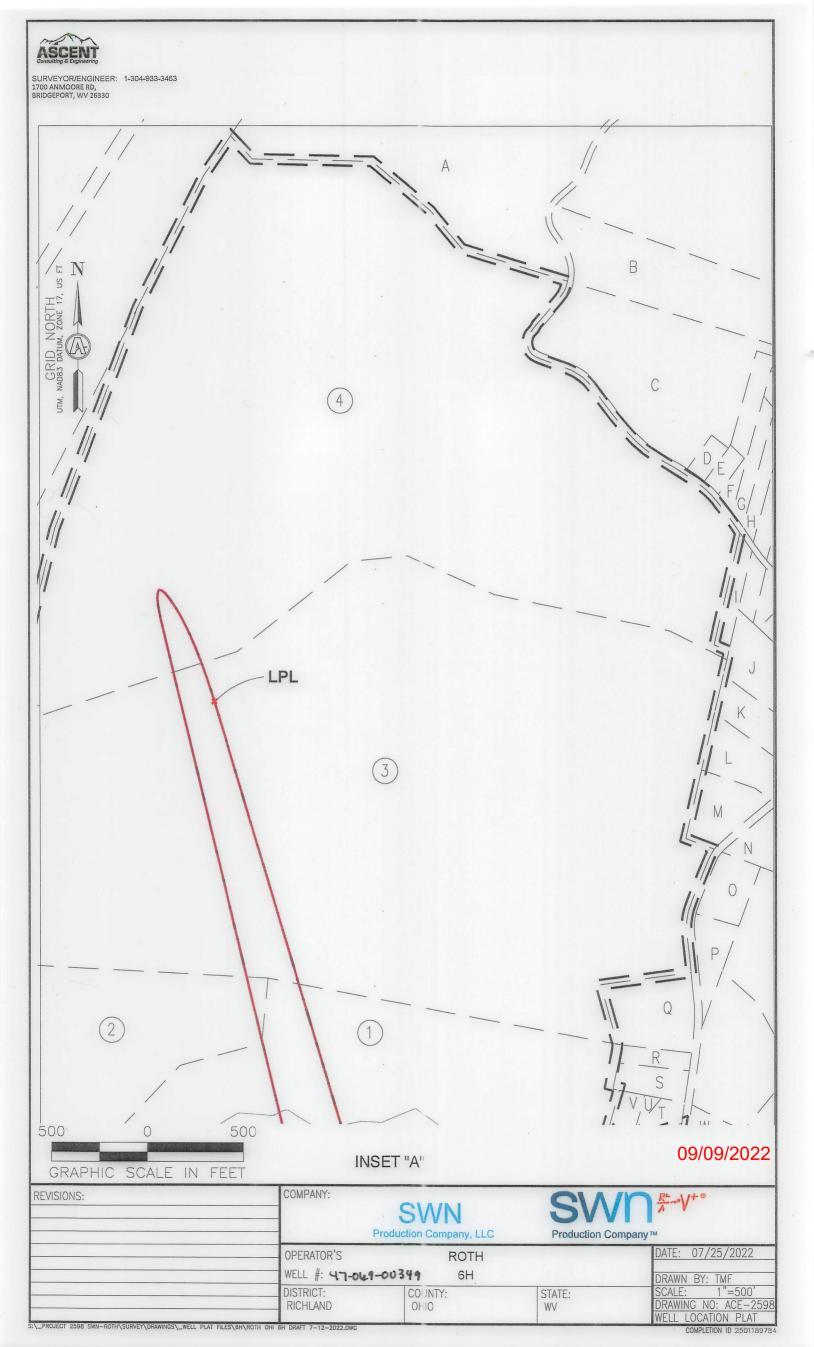
WV Department of Environmental Protection

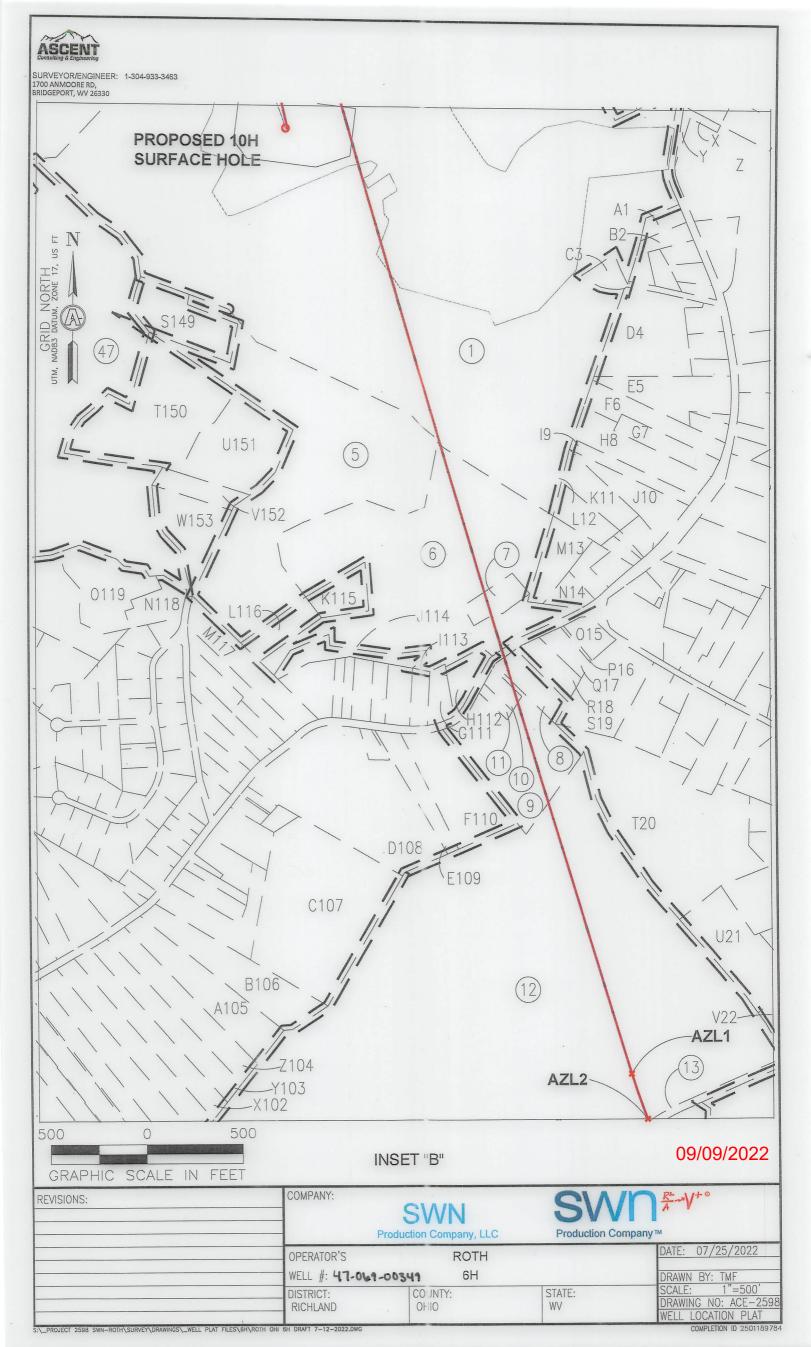


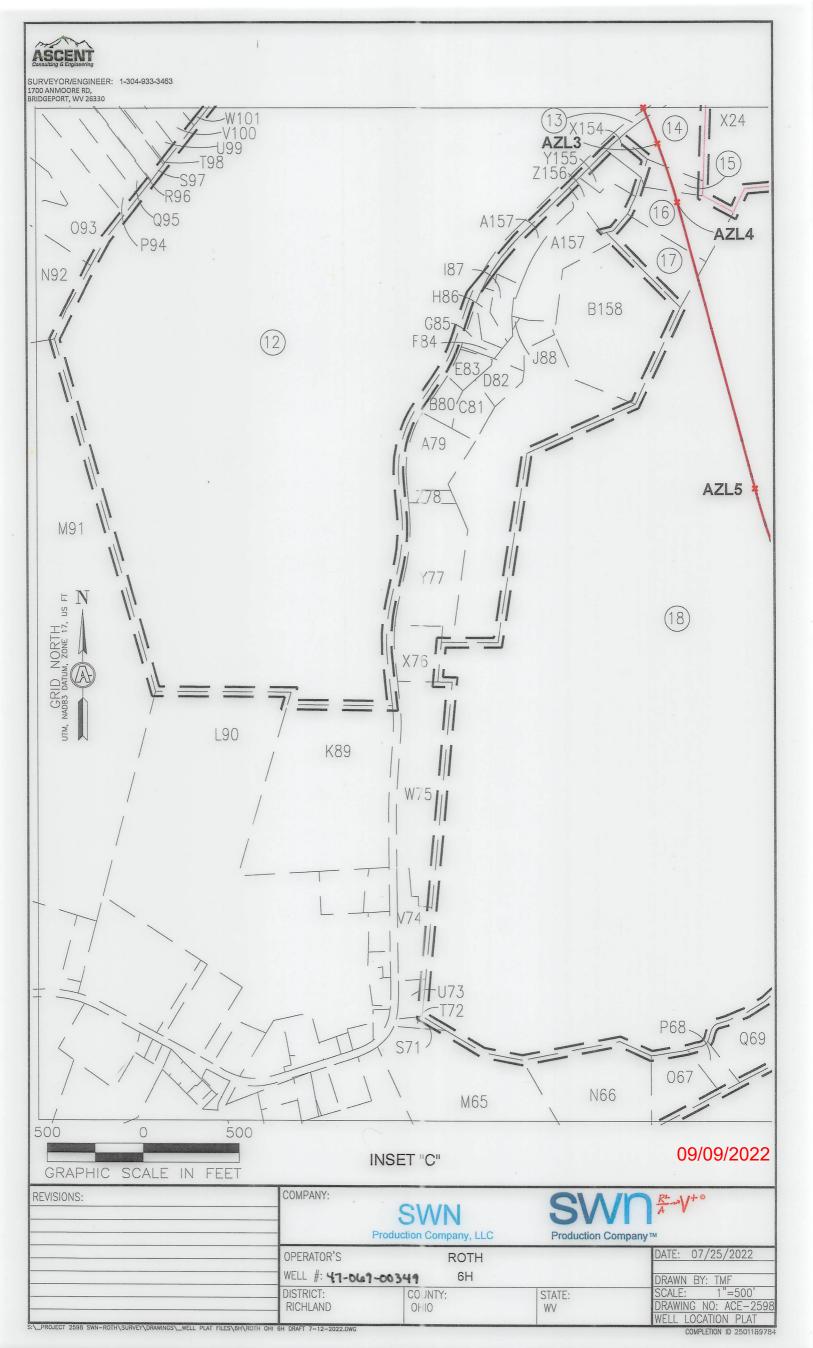


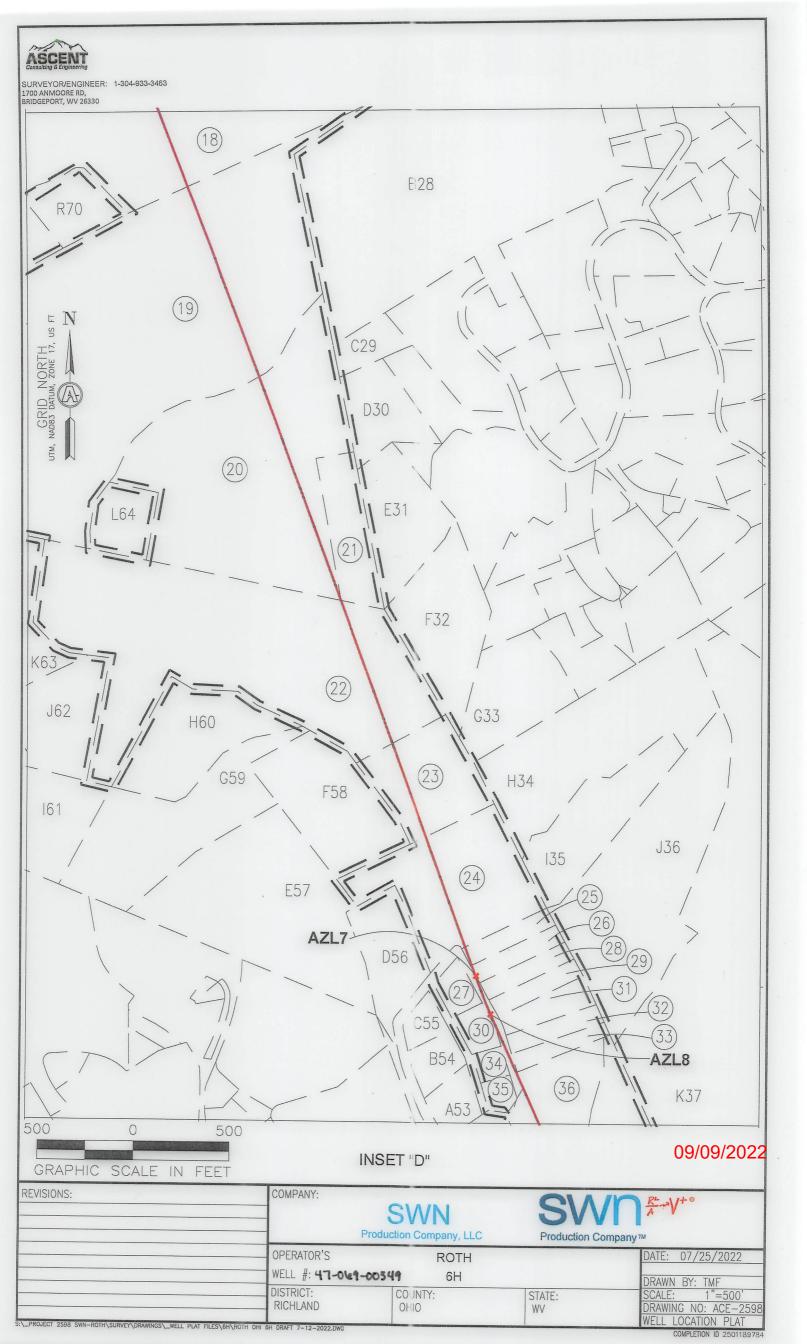


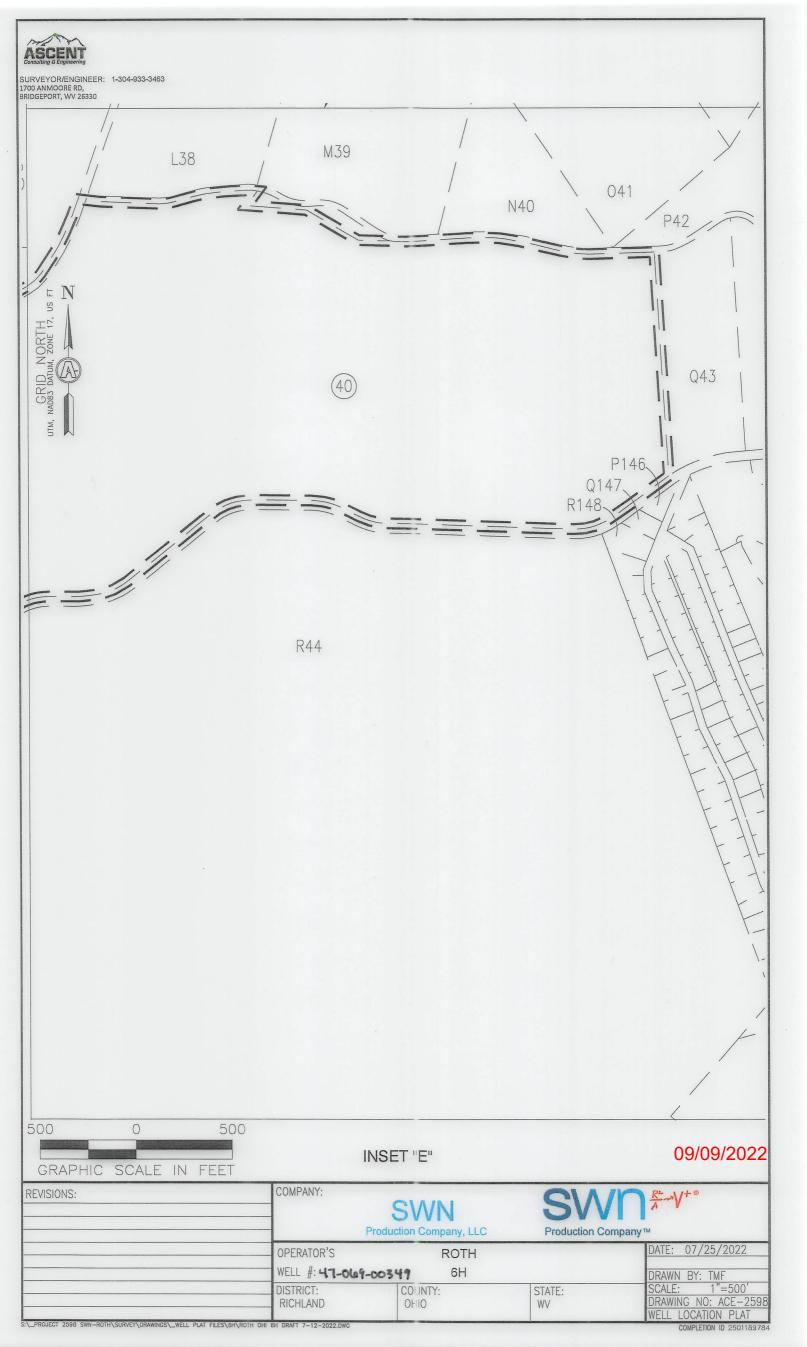
MONDAY JULY 25 2022 05:25PM

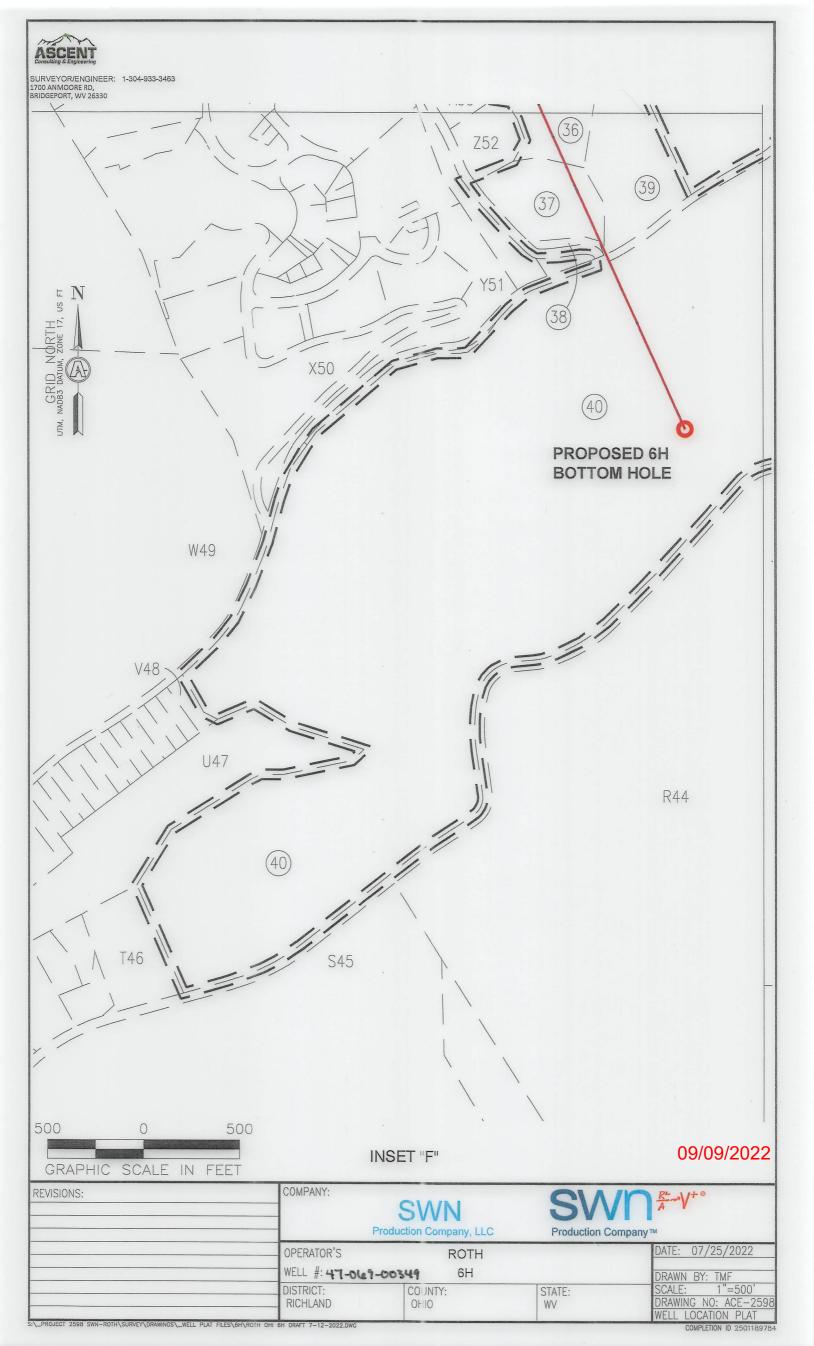


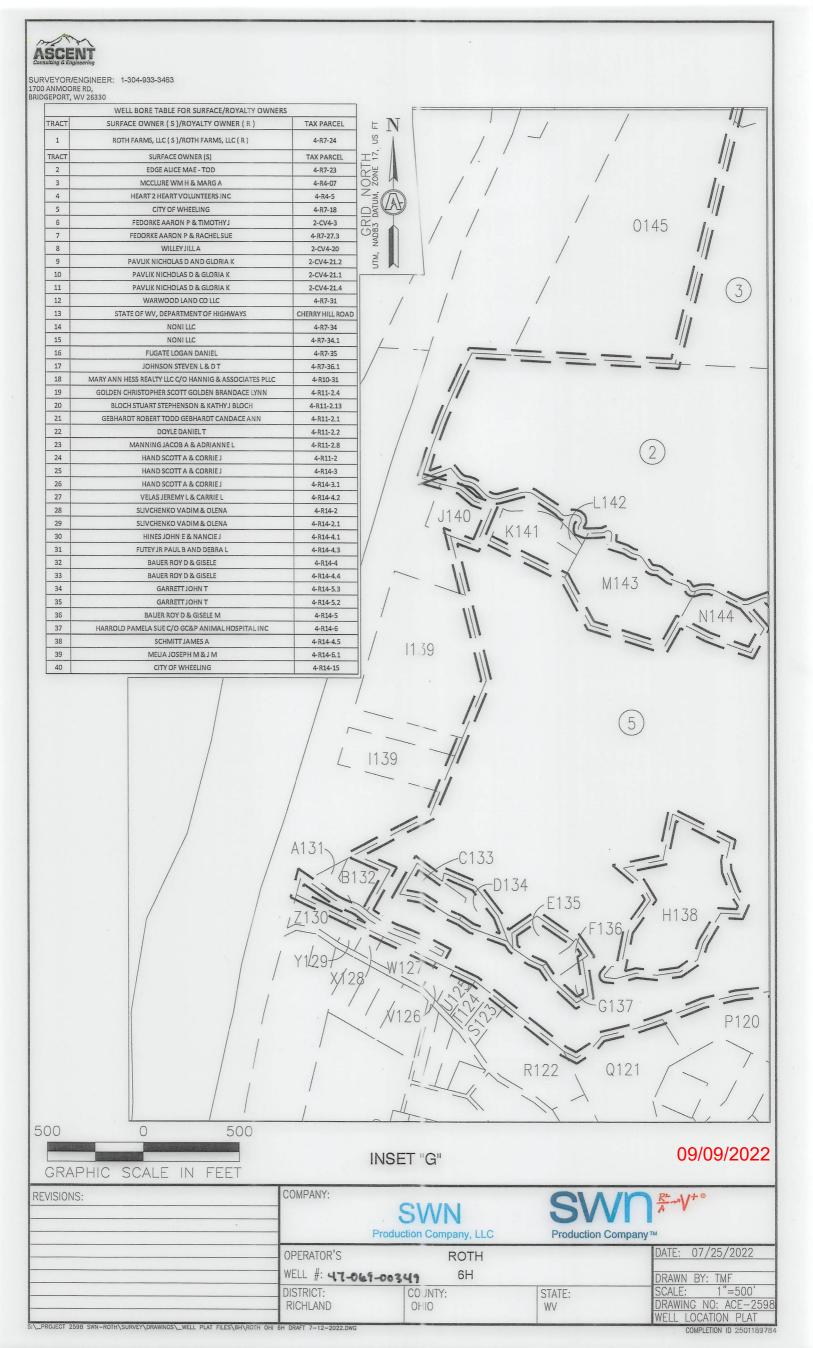












ASCENT SURVEYOR/ENGINEER: 1-304-933-3463 1700 ANMOORE RD, BRIDGEPORT, WV 26330

WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS TRACT TAX PARCEL SURFACE OWNER (S) PLUMBY SARA, JULIE KLEIN & JUDITH PATTI 4-R5-22 Α В ESTEP JOHN L 4-R5-22.4 С BUCK THOMAS E & TERRI D 4-R5-23 D BEEVER MICHAELE & P A 4-R5-23.3 Е HASELEU ELAINE 4-R5-23.1 4-R5-25 F HASELEU ELAINE M 4-R5-26.2 G RICHARDSON DANIEL RICHARDSON BRIAN D AND FLANEGAN CASEY K 4-R5-26.1 Н 1 BOYD ROBERT JEFFREY & CHERYL L 4-R5-24 J OLEJASZ JOSEPH R JR 4-R5-34 К OLEJASZ JOSEPH R JR 4-R5-35 L KUCERA CARLJ & SHARON L 4-R5-35.2 М PAVELICH-SWIGER SHERRI J PAVELICH JEFFREY M 4-85-35.1 Ν WEIGAND PAUL & REBECCA FAMILY TRUST 4-R5-40.1 0 SCHELL RICHARD A & N 4-R8-1.1 Ρ HABERFIELD WAYNE K & D A 4-R8-1 Q MCCLURE WM H & MARGARET A 4-R7-26.1 R LEFKAY SCOTT A & TRACY L 4-R8-2.3 S FELDNER CHARLENE M - TOD 4-R8-2.1 т OLEJASZ JR JOSEPH R OLEJASZ J R SR & G (RT-OCC) 4-R8-2.2 U CALDWELL SUZANNE & SHANE 4-R7-24.2 ٧ CALDWELL SHANE J & CALDWELL SUZANNE M 4-R7-24.1 W MCKEE JAMES F JR & EILEEN B 4-R8-4.14 х MCKEE JAMES & EILEEN 4-R8-4.15 Y TUNNEL RIDGE LLC 4-R8-77 Z TUNNEL RIDGE LLC 4-R8-4.18 A1 KUCERA LISA A 4-R8-4.8 B2 HELDEFFER GEORGE W 4-R8-4.7 C3 CALDWELL SHANE AND SUZANNE 4-R8-78 D4 CLARK JOHN M & B C 4-R8-4.1 E5 CLEGG R E & J L 2-CV1-5 F6 TOMAC ROBERT C JF 2-CV1-4 G7 DANEHART CHARLES D & JO ANN 2-CV1-3 H8 ROGERSON BENTON LSR & KS 2-CV1-2 19 SHEARER PHILLIP G & CINDY M 2-CV1-1 J10 OUINN JOHN THOMAS 2-CV4-7 K11 QUINN THOMAS F & SUE ANN TAYLOR 2-CV4-7.4 L12 BENNER SUZANNE J & JAMES T BENNER 2-CV4-7.5 M13 FEDORKE AARON P & FEDORKE RACHELSUE 2-CV4-4.1 N14 MAMULA VALERIE & GEORGE - TOD 2-CV4-4 015 TURNER TERRY L 2-CV4-18 P16 BONNER ANTHONY S & WRIGHT AMBER R 2-CV4-18.2 BONNER ANTHONY S & AMBER R WRIGHT Q17 2-CV4-18.1 R18 SCAMMELL DAVID & SUSAN 2-CV4-19 S19 SZALAY PATRICIA 2-CV4-17.2 T20 HESTIA LLC 4-R8-65.1 U21 GLENN VIEW LIMITED PARTNERSHIP 4-R8-65.4 V22 GLENN VIEW II LIMITED PARTNERSHIP 4-R8-68 W23 MEREDITH DONALD R II AND JULIE 4-R8-69.1 X24 MARY ANN HESS REALTY LLC C/O HANNIG & ASSOCIATES PLLC 4-R8-70 Y25 MEREDITH DONALD R II AND J K 4-R8-69.3 Z26 MARY ANN HESS REALTY LLC C/O HANNIG & ASSOCIATES PLLC 4-R8-52 A27 MARY ANN HESS REALTY LLC C/O HANNIG & ASSOCIATES PLLC 4-R11-11 B28 PENN HOLDING LIMITED LIABILITY COMPANY 4-R11-6.3 C29 KURTZ PENN L & JEAN S 4-R11-6.14 D30 TIU JEREMY J & MELISSA J 4-R11-6.18 E31 GEBHARDT ROBERT T & CANDACE A 4-R11-6.16 F32 BLOCH STUART STEPHENSON & KATHY J BLOCH 4-R11-6.17 G33 SHATS DANIEL & LISA 4-R11P-5.4 H34 BLISS CHARLIE A SR BLISS MARY ELLEN 4-R14-90.2 135 JONES WILBUR S JR JEFFERSON JOYCE P 4-R14-90.3 136 JONES WILBUR S JR AND JEFFERSON JOYCE P 4-R14-90.1 K37 JONES WILBUR S JR JEFFERSON JOYCE P 4-R14-90.1 L38 SISTERS OF ST JOSEPH OF WHEELING INC 4-R11-21 M39 SISTERS OF ST JOSEPH OF WHG 4-R11-20 N40 PARKS SYSTEM TRUST FUND OF WHEELING 4-R11-21.3 041 WHEELING PARK COMMISSION 4-R14-91 P42 WHEELING PARK COMMISSION 4-R14-20.4 Q43 WHEELING PARK COMMISSION 4-R14-15.2 R44 CITY OF WHEELING 4-R14-15 S45 ELM HILL HOLDINGS LLC 4-R14-14 T46 SCHULTZ JEFFREY S 4-R14-13 U47 WHEELING PARK COMMISSION 10-W17A-1 V48 PELUCHETTE JOHN M&CL 4-R14J-1 W49 POLACK EDWARD P 4-R14-95 X50 JOSEPH ELIAS E 4-R14A-53 Y51 JOSEPH ELIAS E 4-R14A-53 Z52 GARRETT JOHN T 4-R14-5.1

ACT	WELL BORE TABLE FOR SURFACE/ROYALTY OWNERS	TAX PARCEL
ACT	SURFACE OWNER (S)	
153	GARRETT JOHN TRAVIS & JENNET COOLEY	4-R14-1.1
354	GARRETT JOHN T & JENNET COOLEY GARRETT	4-R14-1.2
C55	GROUNDS ANGELA JO	4-R14-1
D56	CHILDERS WILLIAM A & JENNIFER LYNN	4-R14-4.7
E57	MULL ELLEN CLARICE ET AL	4-R11-1
F58	DOYLE MATTHEW M & CHRISTINE M	4-R11-2.5
G59	CUSACK JOHN L & TAMMIE L	4-R11-2.9
HEO	WELDER PAUL J & ALYSSA LEE	4-R11-2.10
161	LOWE JEREMY J & AMANDA L	4-R11-2.6
162	LOWE JEREMY J & AMANDA L	4-R11-2.11
K63	DOYLE DANIEL T & LUCINDA E	4-R11-2.12
L64	DEFELICE LESLIE PAUL	4-R11-2.7
M65	NORTH FORK LANDFILL INC C/O SUSAN SARKIS	4-R10-41
N66	MURRAY SANDRA	4-R10-41
067	MCCARDLE STANLEY JR & MARYANN	4-R11-3
P68	WITSBERGER MARGUERITE L	4-R11-4.1
Q.69	WITSBERGER AMY L	4-R11-4
R70	MARY ANN HESS REALTY LLC	4-R11-5
571	NORTHFORK LANDFILL INC C/O SARKIS SUSAN	4-R10-41.1
T72	NORTH FORK LANDFILL INC C/O SUSAN SARKIS	4-R10-39.1
U73	IAFRATE DAVID A	4-R10-39
V74	MCCARDLE STANLEY MJR & M	4-R10-36
W75	MCCARDLE STANLET MIST & M MCCARDLE STANLEY MJR & M	4-R10-35
	and the second	
X76	INTERSTATE DEV CORP C/O JACK FELTON CPA	4-R10-46
Y77	WEST SHARON L	4-R10-28
278	BROOKS WILLIAM S C/O WESBANCO TRUST	4-R10-27.1
A79	ERNEST RICHARD H JR & A L	4-R10-27
B80	WILSON CINDY L P & D L	4-R10-26
C81	MCCRACKEN ROBERT W	4-R10-25
D82	BROST JR CLARENCE W	4-R10-24
E83	BROST RICHARD	4-R10-24.1
F84	BROST JR CLARENCE W	4-R10-22.2
G85	NEWLAND DARRELL L	4-R10-22.3
H86	KYLE CHAD J & E A	4-R10-22
187	BURTRAND GARY E & T L	4-R10-22.1
388 L	BURTRAND GARY E & T L	4-R10-23.1
K89	BREIDING JOSHUA D & SARAH N	4-R10-20
L90	SARKIS SJ; ROHRIG RF; ROHRIG JR; ROHRIG RF TTEE	4-R10-19
M91	NORTH FORK LANDFILL INC	4-R10-43
N92	MCGLAUGHLIN DENNIS & S	4-R7-30
093	CLEARVIEW VOL FIRE DEPT INC	2-CV6-34.1
P94	STEWART CAROL	2-CV6-28
Q.95	BOPP VICTOR V III & DIANN	2-CV6-28.3
R96	JOSEPH BRADLEY R & JANETTE L	2-CV6-27.1
S97	JOSEPH BRADLEY R & JANETTEL	2-CV6-27
T98	JOSEPH BRADLEY R & JANETTE L	2-CV6-27.2
U99	LAING MARGARET T	2-CV6-26
/100		2-CV6-25
	KIRKSEY MARK R WEATHERSON NANCY (RES'V L/E)	
V101	CONTRAGUERRO MICHAEL J & P A	2-CV6-24
X102	STEWART GREGORY L & JODI A	2-CV6-23
Y103		2-CV6-22
Z104	DAGRAVA TIMOTHY & MEGAN	2-CV6-21
4105	HLAD DOUGLAS M & LISA ANN	2-CV6-20
B106	STEWART LOGAN G	2-CV6-19
C107	SZALAY FRANCIS E & PL	2-CV3-13.1
D108	MYERS WILBERT E III & J S	2-CV3-13
109	KLEIN JACK W JR & B J	2-CV4-22.1
F110	MURRAY BRYAN M AND JOAN C	2-CV4-22
5111	STAHNKE DAVID A & TRICIA J	2-CV4-1
H112	CUPP DAVID J	2-CV4-2
1113	STAHNKE DAVID A AND LITTEN T J	2-CV4-1.1
1114	DELANEY EXIE II	4-R7-27.1
<115	FEDORKE TIMOTHY JOSEPH	4-R7-37
.116	BIEGA FRANK & CONNIE	4-R7-27.2
A117	STOEHR RONALD J & MARIE PAPPA	2-CV3-4.7
118	ROWND DENISE A ROWND DANIEL THOMPSON III	4-R7-14.1
0119	ROWND DENISE & DANIEL TIII	4-R7-14
2120	ROWND DENISE & DAMELT III	4-R7-14 4-R7-12
2121	BIEGA CONNIE SUE & FRANK PAUL	4-R7-12
R122	CITY OF WHEELING	
		4-R7L-105
5123		4-R7L-100
T124	MACFARLAND DARIN P & K L	4-R7L-99
U125	CITY OF WHEELING	4-R7G-25
V126	MACFARLAND DARIN P & KIMBERLY	4-R7G-24
V127	COMER JAMES A & J A	4-R7G-23
×128	COMER JE AN A	4-R7G-20
129	ROBINSON RICHARD J	4-R7G-19

REVISIONS:	COMPANY:	SWN Production Company, LLC	SW Production Con	mpany™
	OPERATOR'S	ROTH 6H		DATE: 07/25/2022
	DISTRICT: RICHLAND	COUNTY: OFIIO	STATE: WV	SCALE: N/A DRAWING NO: ACE-259 WELL LOCATION PLAT
S:_PROJECT 2598 SWN-ROTH\SURVEY\DRAWINGS_	WELL PLAT FILES\6H\ROTH OHI 6H DRAFT 7-12-2022.DWG			COMPLETION ID 2501



SURVEYOR/ENGINEER: 1-304-933-3463 1700 ANMOORE RD, BRIDGEPORT, WV 26330

	WELL BORE TABLE FOR SURFACE/ROYALTY OWNE	ERS
TRACT	SURFACE OWNER (S)	TAX PARCEL
A131	GUZZI COREY A & BRITTANY N	4-R7-10
B132	GUZZI COREY A & BRITTANY N	4-R7-11
C133	FLUHARTY MICHAEL L	4-R7-6
D134	WOLFE JAMES R ESTATE	4-R7-7
E135	FLUHARTY MICHAEL L & BREN DA K	4-R7-8
F136	FLUHARTY MICHAEL L & BREN DA K	4-R7-9.1
G137	FLUHARTY MICHAEL & BRENDA	4-R7-9.1
H138	OAKLAND MEMORIAL CEMETERY	4-R7-18.1
1139	ZOECKLER C W R R & C L	4-R7L-56
J140	JONES SHANNON M WILDS	4-R7-16.1
K141	DEAN LOMAN L & R Z	4-R7-21
L142	LOEW J W JR & ELSIE	4-R7-22
M143	HARTFILE GARY- TOD	4-R7-16
N144	HARTFILE GARY L- TOD	4-R7-20
0145	DONOHEW WILLIAM SCOTT & LAURA	4-R4-2.4
P146	HOSFELT WILLIAM J & PATRICIA HOSFELT ESTATES	10-W12D-2
Q147	RANSOM CHARLES M & CRYSTAL G	10-W12D-1
R148	BURKE SUSAN R	10-W14D-1
S149	HARTFILE GARY- TOD	4-R7-15.1
T150	FLUHARTY MICHAEL AND BRENDA K	4-R7-17
U151	STEWART MARK E; GEIGER LEEANN	4-R7-28
V152	STEWART MARK E	4-R7-15.2
W153	BIEGA FRANKIE P & C S	4-R7-15
X154	JOHNSON MILDRED J	4-R7-33
Y155	JOHNSON MILDRED J	4-R7-32
Z156	JOHNSON MILDRED JOANN	4-R7-36
A157	NHOL NOSNHOL	4-R10-29
B158	MCLAUGHLIN HENRY J II	4-R10-29.1
C159	JOHNSON JOHN LLOYD	4-R7-39

COMPANY: **REVISIONS:** R-AV+0 S 21 SWN V Production Company, LLC Production Company™ DATE: 07/25/2022 OPERATOR'S ROTH DRAWN BY: TMF SCALE: N/A DRAWING NO: ACE-2598 WELL LOCATION PLAT COMPLETION ID 2501189784 WELL #: 47-069-00349 6H DISTRICT: RICHLAND COUNTY: OHIO STATE: WV OHI 6H DRAFT 7-12-2022.DW S:_PROJECT 2598 SWN-ROTH\SURVEY\DRAWINGS_WELL PLAT FILES\6H\RC

09/09/2022

WW-6A1 (5/13)

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

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

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

Lease Name or				
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
	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 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 Co., LLC	an Vite
By:		Gavin Nadeau, RPL
Its:		Landman

Page 1 of 2

09/09/2022

		EXIMIT" Roth OHI Ohio Cauty, We Amached to and made a part of the State of Wer Virginia OH and Gas Penni	H : Virginia	Operator		
100	in de Alfrader			244 (144) (177)	A Contraction	% INTEREST NOT LEASED BY S
	TMP	LESSOR	LESSEE SWN Production Company, LLC	ROYALTY 18.00%	BK/PG 931/199	PRODUCTION COMPANY, LLC
· lamak	4 Roth and Marga	The Trust Agreement of Joseph Roth, dated November 05, 2004 anet A. Gongola, Trustees of the Joseph Roth Trust under Agreement dated the 5th day of November, 2004 corresped tion Company, LLC obtaining the Oil and Gas Leave dated 10/2/017 and recorded at 931/199. Therefore, 3WP Product	property to The Roth Farm, LLC via Outiclaim Deed	recorded at 931/650 c		0.00%
		Alice M. Edge, a/t/a Alice Mae Edge, widow	SWN Production Company, LLC	18.00%	976/502	0.00%
2) 04 3) 04	-002 7-0023-0000	William H. McChire and Margaret A. McChire, lasband and wife	Fossil Creek Ohio, LLC	18.00%	873/361	0.0070
			Gulfport Energy Corporation		893/379 909/775	0.00%
			American Petroleum Partners Operating, LLC SWN Production Company, LLC		909/7/5 946/405	
) 04	-00R4-0005-0000	Roman Catholic Diocess of WheelingCharleston, by Michael J. Bransfield, Bishop	SWN Production Company, LLC	18.00%	930/391	0.00%
		The City of Wheeling	American Petroleum Partners Operating, LLC	18.50%	936/710	0.60%
	00114 0002 0000	Timothy Joseph Fedorke	SWN Production Company, LLC SWN Production Company, LLC	18.00%	980/572	
		Aaron Patrick Fedorike and Rachel Sue Fedorike, husband and wife	SWN Production Company, LLC	18.00%	966/560	0.00%
04	-00R7-0027-0803	Aaron Patrick Fedorke and Rachel Sue Fedorke, husband and wife	American Petroleum Partners Operating, LLC	18.00%	943/556 980/572	0.00%
02	-0CTV4-0020-0000	Michael A. Willey and Jill A. Willey, his wife	SWN Production Company, LLC SWN Production Company, LLC	16.00%	1000/103	0.00%
		Nicholas D. Pavlik, a/k/a Nicholas David Pavlik and Gloria K. Pavlik, a/k/a Gloria Kay Pavlik, husband and wife	TH Exploration, LLC	18.00%	896/415	
			American Petroleum Partners Operating, LLC		958/126	0.00%
) 02	00114 0021 0001	Nicholas D. Pavlik, a/k/a Nicholas David Pavlik and Gloria K. Pavlik, a/k/a Gloria Kay Pavlik, husband and wife	SWN Production Company, LLC TH Exploration, LLC	18.00%	980/572 896/415	
) 02	-00 74-0021-0001	nicioned D. Pevilk, dive Micholes Devil Pevilk and Giule K. Pevilk, dive Giule Key Pevilk, insona wa witc	American Petroleum Partners Operating, LLC	10.0070	958/126	0.00%
			SWN Production Company, LLC		980/572	
) 02	-0CV4-0021-0004	Nicholas D. Pavlik, a/k/a Nicholas David Pavlik and Gloria K. Pavlik, a/k/a Gloria Kay Pavlik, husband and wife	TH Exploration, LLC American Petroleum Partners Operating, LLC	18.00%	896/415 958/126	0.00%
			SWN Production Company, LLC		980/572	
) 04	-00R7-0031-0000	Warwood Land Co., L.L.C.	American Petroleum Partners Operating, LLC	18.00%	934/797	0.00%
~~~	TODDY UNI NO	West Virginia Department of Transportation, Division of Highways	SWN Production Company, LLC SWN Production Company, LLC	20.00%	980/572	0.00%
04	-00R7-0034-0000	Christina H. Hoss, a single woman	SWN Production Company, LLC SWN Production Company, LLC	18.00%	1012/593	0.00%
04	-00R 7-0034-0001	Christian H. Hess, a single woman	SWN Production Company, LLC	18.00%	1012/593	0.00%
) 04	-00R 7-0035-0000	Deniel Fugate, a single man	TH Exploration, LLC	18.00%	891/683 958/126	0.00%
			American Petroleum Partners Operating, LLC SWN Production Company, LLC		980/572	0.0075
) 04	-00R 7-6036-0001	Steven L. Johnson and Dorothy T. Johnson, husband and wife	SWN Production Company, LLC	16.00%	919/724	0.00%
04	-0R10-0031-0000	Jessica B. Hogan, a single woman	SWN Production Company, LLC	18.00%	932/362 934/287	0.00%
		W. Neil Hogan, III, a single man Mary Ann Hess Rezly, LLC	SWN Production Company, LLC SWN Production Company, LLC	18.00%	934/287 934/279	0.00%
04	-0R11-0002-0004	Christopher Scott Golden and Brandace Lynn Golden, husband and wife	American Petroleum Partners Operating, LLC	18.00%	932/101	
		Bousty Minerals LLC	SWN Production Company, LLC	10.000/	980/572 938/783	0.00%
) 04	-0811-0002-0013	Bounty Minterals LLC	SWN Production Company, LLC SWN Production Company, LLC	18.00%	939/4	0.00%
) 04	-OR11-0002-0001	Bounty Minerals LLC	SWN Production Company, LLC	18.00%	939/4	0.00%
) 04	-0R11-0002-0002	Daniel T. Doyle and Lucinda E. Doyle, husband and wife	Fossil Creek Ohio, LLC	20.00%	871/740	
			Gulfport Energy Corporation American Petroleum Partners Operating, LLC		893/392 909/775	0.00%
			SWN Production Company, LLC		946/405	
		Daniel T. Doyle and Lucinda E. Doyle, husband and wife	SWN Production Company, LLC	18.00%	1000/169	0.00%
) 04	I-GR11-0002-0000	Scott A. Hand and Corrie J. Hand, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.00%	932/93 980/572	0.00%
) 04	-0R14-0003-0000	Scott A. Hand and Corrie J. Hand, hashand and wife	American Petroleum Partners Operating, LLC	18.00%	932/93	0.00%
		Annual Mandard Annual Industry	SWN Production Company, LLC		980/572	
) 04	I-OR 14-0003-0001	Scott A. Hand and Corrie J. Hand, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.00%	932/93 980/572	0.00%
		Jeremy L. Veles and Carrie L. Velas, husband and wife	SWN Production Company, LLC	18.00%	1001/472	0.00%
) 04	-0R14-0002-0000	Vadim Slivchenko and Olena Slivchenko, huzband and wife Vadim Slivchenko and Olena Slivchenko, huzband and wife	SWN Production Company, LLC	18.00%	1020/666	0.00%
		Vadm Sirvchenko and Olena Sirvchenko, husband and wife John E. Hines and Nancie J. Hines, husband and wife	SWN Production Company, LLC Chesapeake Appalachia, L.L.C.	18.00%	841/752	0.00%
			SWN Production Company, LLC		885/25	0.00%
		Paul B. Futsy, Jr. and Debra L. Futsy, husband and wife	SWN Production Company, LLC	16.00%	998/506	0.00%
		Roy D. Bauer and Gizele Bauer, husband and wife Roy D. Bauer and Gizele Bauer, husband and wife	SWN Production Company, LLC SWN Production Company, LLC	18.00%	1000/160	0.00%
		Bruce Apperson Kayuha and Amanda M. Kayuha, husband and wife	American Petroleum Partners Operating, LLC	18.00%	943/520	0.0078
			SWN Production Company, LLC		980/572	_
		Ress Charles Kayuha and Elsa I. England Kayuha, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.00%	943/540 980/572	
		David Allen Kayuha and Bridget O'Reilly, husband and wife	SWN Production Company, LLC American Petroleum Partners Operating, LLC	18.00%	945/290	0.00%
			SWN Production Company, LLC		980/572	0.0075
		Robert Joseph Knyuha and Lena Knyhua, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.00%	945/336 980/572	
		Mary Frances Dwinnell and William B. Dwinnell, husband and wife	SWN Production Company, LLC American Petroleum Partners Operating, LLC	18.00%	945/427	-
			SWN Production Company, LLC		980/572	
) 04	-0R14-0005-0002	Bruce Apperson Kayuha and Amanda M. Kayuha, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.00%	943/520 980/572	
		Ross Charles Kayuha and Eka I. Englund Kayuha, husband and wife	American Petroleum Partners Operating, LLC	18.00%	980/572 943/540	
			SWN Production Company, LLC		980/572	
		David Allen Kayuha and Bridget O'Reilly, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.00%	945/290 980/572	0.00%
		Robert Joseph Kayuha and Lana Kayhua, husband and wife	American Petroleum Partners Operating, LLC	18.00%	945/336	
			SWN Production Company, LLC		980/572	
		Mary Frances Dwinnell and William B. Dwinnell, husband and wife	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.00%	945/427 980/572	
) 04	-0R14-0005-0000	Bruce Apperson Kayuha and Amanda M. Kayuha, husband and wife	SWN Production Company, LLC SWN Production Company, LLC	18.00%	980/572 965/579	
		Ross Cherles Kayuha and Elsa L England Kayuha, husband and wife	SWN Production Company, LLC	18.00%	967/787	
		David Allen Kayuha and Bridget O'Reilly, husband and wife Robert Joseph Kayuha and Lana Kayhua, husband and wife	SWN Production Company, LLC	18.00%	966/419	0.00%
		Robert Joseph Rayuna and Lana Rayuna, miseano and wife Mary Frances Dwinnell and William B. Dwinnell, busband and wife	SWN Production Company, LLC SWN Production Company, LLC	18.00% 18.00%	966/395 967/410	-
	-0R14-0006-0000	Long Run Pet Hospital, Inc.	SWN Production Company, LLC	17.00%	1011/625	0.00%
) 04	-0R14-0004-0005	James A. Schmitt, a single man	Chesapeake Appalachia, L.L.C.	18.00%	835/165 884/753	0.00%
) 04	-0R14-0006-0001	Joseph M. Melia and Janice M. Melia, husband and wife	SWN Production Company, LLC SWN Production Company, LLC	12.50%	884/753 999/201	0.00%
		Wheeling Park Commission, a Public Corporation and Governmental Subdivision of the City of Wheeling and the City of				0.00%
04		Wheeling, a Municipal Corporation	SWN Production Company, LLC	18.00%	978/248	0.0070

WW-6AC (1/12)

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

Date of Notice Certification:

API No. 47- 06706900349

Notice has	been	given	•
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Operator's Well No. Roth OHI 6H Well Pad Name: Roth OHI

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	Easting:	526,666.717
County:	069-Ohio	UTM NAD 83 Northing	: 4444579.824
District:	Richland	Public Road Access:	Clearview Avenue
Quadrangle:	Wheeling	Generally used farm name:	Roth
Watershed:	Upper Ohio- Wheeling		

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY	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
<ul> <li>3. NOTICE OF INTENT TO DRILL or DISTRICT NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</li> <li>WRITTEN WAIVER BY SURFACE OWNER</li> </ul>	RECEIVED/ NOT REQUIRED
(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 fine and imprisonment.

Well Operator:	SWN Production Co., LLC	Address:	1300 Fort Pierpont Dr., Suite 201
By:	Brittany Woody		Morgantown, WV 26508
Its:	Senior Regulatory Analysta	Facsimile:	304-884-1690
Telephone:	304-884-1610	Email:	Brittany_Woody@swn.com
306 5	JEANETTE M. GUTTLIEP Notary Public Official Seal State of West Virginia My Comm. Expires Oct 1, 2024	Commission Er	prn before me this 28 day of July 22. Multip Notary Public prires 10101 2024

#### **Oil and Gas Privacy Notice:**

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

### 4706900349

API NO. 47-009 -OPERATOR WELL NO. Roth OHI 6H Well Pad Name: Roth OHI

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

Notice Time Requirement	: notice shall be provided no	a later than the filing da	te of permit application.
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	e of Notice: <u>34</u> ice of:	Date Permit Appli	cation Filed: <u>34</u>
PERMIT FOR ANY WELL WORK			IFICATE OF APPROVAL FOR THE TRUCTION OF AN IMPOUNDMENT OR PIT
Deli	very method pursu	ant to West Virginia	Code § 22-6A-10(b)
	PERSONAL SERVICE	REGISTERED MAIL	METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

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

SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name: Roth Farm, LLC	Name: Alliance Resources GP, LLC
Address: 423 Clearview Avenue	Address: 2596 Battle Run Road
Wheeling, WV 26003	Triadelphia, WV 26059
Name:	COAL OPERATOR
Address:	Name:
	Address:
□ SURFACE OWNER(s) (Road and/or Other Disturbance)	
Name:	SURFACE OWNER OF WATER WELL
Address:	AND/OR WATER PURVEYOR(s)
	Name: None
Name:	Address:
Address:	And the second se
	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
□ SURFACE OWNER(s) (Impoundments or Pits)	Name:
Name:	Address:
Address:	
	*Please attach additional forms if necessary

APINO. 47- 609 0 0 3 4 9

OPERATOR WELL NO. Roth OHI 6H Well Pad Name: Roth 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.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <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 trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items



API NO. 47-009 OPERATOR WELL NO. Roth OHI 6H Well Pad Name: Roth 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.

### PINO 47.06900349

OPERATOR WELL NO. Roth OHI 6H Well Pad Name: Roth 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.

## **47**06900349

OPERATOR WELL NO. Roth OHI 6H Well Pad Name: Roth OHI

#### Notice is hereby given by:

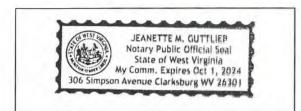
Well Operat	or: SWN Produc	tion Co., LLC	10	bany	
Telephone:	304-884-1610	1 110	Malm.	1000.	X
Email: Brittan	304-884-1610 ny_Woody@swnsc	2000 THE	DIOX.		
	(	Dun	0		

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

1 ...



Subscribed and sworn before me this 28 day of Qu	ly 22
Geometer Suttlies	_Notary Public
My Commission Expires 10 01 2024	

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

Notice Time Requirement: Notice shall be provided at least SEVEN (7) days but no more than FORTY-FIVE (45) days prior to entry

2/10/2022
12

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

$\Box$	PERSONAL	RE RE
	SERVICE	М

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

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

#### Notice is hereby provided to:

SURFACE OWNER(s)	COAL OWNER OR LESSEE	
Name: The Roth Farm, LLC	Name: Alliance Resources GP, LLC	
Address: 423 Clearview Avenue	Address: 2596 Battle Run Road	
Wheeling, WV 26003	Triadelphia, WV 26059	
Name:	MINERAL OWNER(s)	
	Name: The Roth Farm, LLC	
Name:	Address: 423 Clearview Avenue	
Address:	Wheeling, WV 26003	
	*please attach additional forms if necessary	

#### Notice is hereby given:

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

Public Road Access:	Clearview Avenue
Watershed:	Upper Ohio-Wheeling
Generally used farm name:	The Roth Farm, LLC
	Watershed:

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

#### Notice is hereby given by:

Well Operator:	SWN PRODUCTION COMPANY, LLC	Address:	1300 Fort Pierport Dr., Suite 201	
Telephone:	304-884-1610		Morgantown, WV 26508	
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 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>.

#### STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF INTENT TO DRILL</u>

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:
 07/20/2022

 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: The Rot	h Farm, LLC	Name:
Address: 423	Clearview Avenue	Address:
Whee	eling, WV 26003	

#### 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	LITA NAD 82	Easting:	526,666.717	
County:	Ohio	UTM NAD 83	Northing:	4,444,579.824	
District:	Richland	Public Road Acc	ess:	Clearview Avenue	
Quadrangle:	Tiltonsville 7.5', OH	Generally used fa	arm name:	Roth OHI	
Watershed:	Upper Ohio - Wheeling				

#### 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:	Justin Booth
P.O. Box 1300	Address:	1300 Fort Pierpont Drive, Suite 201
Jane Lew, WV 26378		Morgantown, WV 26508
304-884-1675	Telephone:	304-884-1675
Justin_Booth@swn.com	Email:	Justin_Booth@swn.com
	Facsimile:	
	P.O. Box 1300 Jane Lew, WV 26378 304-884-1675	P.O. Box 1300         Address:           Jane Lew, WV 26378

#### 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-6A5 (1/12)

### STATE OF WEST VIRGINIA 4706900349 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: 07/20/2022 Date Permit Application Filed:

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

CERTIFIED MAIL	HAND
RETURN RECEIPT REOUESTED	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: The Roth Farm, LLC	Name:
Address: 423 Clearview Avenue	Address:
Wheeling, WV 26003	

#### Notice is hereby given:

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

State:	West Virginia	Eas Eas	ting;	526,666.717	
County:	Ohio	UTM NAD 83 Nor	thing:	4,444,579.824	
District:	Richland	Public Road Access:		Clearview Avenue	
Quadrangle:	Tiltonsville 7.5', OH	Generally used farm	name:	Roth OHI	
Watershed:	Upper Ohio - Wheeling				

#### This Notice Shall Include:

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

Well Operator:	SWN Production Company, LLC	Address:	P.O. Box 1300	
Telephone:	304-884-1675		Jane Lew, WV 26378	
Email:	Justin_Booth@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 deprivacyofficer@wv.gov.

4706900349



#### 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

July 18, 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 Roth Pad, Ohio County Roth OHI 6H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2022-0084 which has been issued to Southwestern Energy for access to the State Road for a well site located off Ohio County Route 4 SLS MP 2.39.

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,

and Clay

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

Product Name	Product Use	Chemical Name	CAS Number 107-211
AI-303 (U.S. Well Services)	Mixture	Ethylene glycol	107-21 1
		Cinnamaldehyde	111-76 2
		Butyl cellosolve Formic acid	64-18 6
		Polyether	Proprietary
		Acetophenone, thiourea, formaldehyde polymer	68527-49 1
DONE (U.S. Well Services)	Breaker	Ammonium persulfate	7727-54-0
P ONE (U.S. Well Services)			
actron K-139 (Champion Technologies)	Biocide	Glutaraldehyde	111-30-8
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides Ethanol	68424-85-1
actron K-219 (Champion Technologies)	Biocide	Methanol	64-17-5 67-56-1
1. 1144		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
arboNRT	Tracer	Ceramic Proppant	66402-68-4
C6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate	Proprietary
		Ethylene Glycol	107-21-1
6734A (Champion Technologies)	Biocide	Hydrogen Peroxide	7722-84-1
		Acetic Acid	64-19-7
		Peroxyacetic Acid	79-21-0
ono-CI200 (SWN Well Services)	Corrosion Inhibitor	Methanol	67-56-1
		Oxyalkylated fatty acid	68951-67-7
		Fatty acids	61790-12-3
		Modified thiourea polymer	68527-49-1
		Water	7732-18-5
		Hydrochloric acid	7647-01-0
		Potassium acetate	127-08-2
		Formaldehyde	50-00-0
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	64742-47-8
DJET DR900 LPP (SWN Well Services)	Friction Reducer	Distillates (petroleum) hydrotreated light	64674-47-8
		Ethylene Glycol	107-21-1
		Alcohols, C12-16, Exoxylated propoxylated	68213-24-1
		Fatty Alcohols ethoxylated	Proprietary
		Water	7732-18-5
DJET DRP 1130X (SWN Well Services)	Friction Reducer	Proprietary	Proprietary
76 (Halliburton)	Friction Reducer	Hydrotreated light petroleum distillate	64742-47-8
	177100700010	Inorganic Salt	Proprietary
GYPTRON T-390 (Champion Technologies)	Scale Inhibitor	Methanol	67-56-1
, , , , , , , , , , , , , , , , , , , ,		Nonyiphenol Ethoxylate	Proprietary
-150E (Halliburton)	Corrosion Inhibitor	No hazardous substance	N/A
(SWN Well Services)	Hydrocholic Acid	Hydrochloric Acid	7647-01-0
	. A	Water	7732-18-5
65 MC (Halliburton)	Scale Inhibitor	Organic phosphonate	Proprietary
is the (number ton)	Seale minister	Ammonium Chloride	12125-02-9
1-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	64742-47-8
xslick 930	Friction Reducer	Copolymer of 2-propenamide Hydrotreated Distillate	Proprietary 64742-47-8
		Sodium Chloride	7647-14-5
			and the second s
		Alcohols, C12-16, Exoxylated Oleic Acid Diethanolamide	68551-12-2
		Ammonium Chloride	93-83-4
with ora	Public Bullion		12125-02-9
kslick 953	Friction Reducer	Petroleum Distillate	64742-47-8
		Sodium Chloride	7647-14-5
		Ammonium Chloride	12125-02-9
which 057	Putation Potentia	N,N-bis (2-hydroxyethyl) oleamide	93-83-4
Plexslick 957	Friction Reducer	Petroleum Distillate	64742-47-8
		Ammonium Chloride	12125-02-9
		Oleic Acid Diethanolamide	93-83-4
		Alcohols, C12-16, Exoxylated Water	68551-12-2
	And and a Price of the		7732-15-5
RA-2000 (U.S. Well Services)	Anionic Friction Reducer	Hydrotreated light distillate (petroleum)	64742-47-8
Company and		Propenoic acid, polymer with propenamide	9003-06 9
kaid 655 NM	Scale Inhibitor	Diethylenetriamine penta (methylene phosphonic acid)	15827-30-8
slick 922	no data available	Copolymer of 2-propenaminde	69418-26-4
		Distillates (petroleum), hydotreated light	64742-47-8
		Ammonium chloride ((NH4)CI)	12125-02-9
		Oleic Acid Diethnolamide	93-83-4
	Bradda - Ara		
	Biocidal product	Tetrakis (hydroxymethyl) phosphonium sulphate	55566-30-8
	Biocidal product	Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate	
olcide PS50A		Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups	397256-50-7
olcide PS50A 2-2950	Biocidal product Friction Reducer	Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distillate	397256-50-7 64742-47-8
olcide PS50A		Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distillate Ethoxylated alcohol	397256-50-7 64742-47-8 Proprietary
ilcide PS50A 1-2950	Friction Reducer	Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distillate Ethoxylated alcohol Poly (oxy-1.2-ethanediyl) alpha,-tridecyl-,omega,-hydroxy-, branched	397256-50-7 64742-47-8 Proprietary 69011-36-5
lcide PS50A		Tetrakis (hydroxymethyl) phosphonium sulphate Acrylic acid terpolymer containing carboxylate phosphonate and sulfonate groups Hydrotreated light petroleum distillate Ethoxylated alcohol	397256-50-7 64742-47-8 Proprietary

